



Second Term Questions Bank 🔈



Ouestion 01

Choose the correct answer

(1)	The point	lies in the	third	quadrant
1	(a) (-52)		(b)	(5.2)

The volume of cuboid of dimensions 8 cm , 6 cm and 5 cm is
$${\rm cm}^3$$

(a) 3 to 4 and
$$\frac{16}{20}$$

$$\frac{5}{6}$$
 and $\frac{6}{5}$

(d)
$$\frac{21}{24}$$
 and 7:8







The point (4, -2) by reflection across the y axis is the point.....

(a)
$$(-4, -2)$$

$$(-4,2)$$

$$(2,-4)$$

9 How many
$$\frac{3}{4}$$
 s are there in 6 bananas?

1
$$4\frac{3}{4}$$

A parallelogram with area
$$70~{
m cm^2}$$
 and base length 14 cm, then it's corresponding height is...... cm

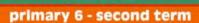


				4 cm	primi	ary 6 - second t	eriii	مود سعید
12	The	area of the opposi	te trap	pezium 6cm				188
	(1)	52	(b)	54 14 cm	©	45	(1)	60
13	If th	e x – coordinate of	a poir	nt is zero, then the	point	lies		
	(1)	on the y-axis	(b)	on the x-axis	©	in the first quadrant	d	in the fourth quadrant
14		e height of a cuboi inal volume is	d is div	vided in fourth, th	en the	ratio between	the ne	w volume to th
	(1)	1:2	(b)	4:1	0	1:4	(1)	4:2
15	The	height of a rhomb	us who	ose area is 70 cm ²	and si	de length 10 cm	ı is	cm ²
	(1)	7	(b)	8	©	9	d	10
(16)	Whi	ch o <mark>f the</mark> following	is the	simplest form of	18 : 24	?		
	(1)	8 :12	(b)	3:4	0	4:6	(d)	2 to 3
(17)	whic	ch o <mark>f t</mark> he following	points	is located on The	x – ax	is?		
J's	(3)	(3,0)	(b)	(0, 3)	0	(0, - 3)	(d)	(3, -3)
18	fron	n th <mark>e o</mark> pposite tapo	e diagr	am, x =	120			
	(1)	30	(b)	240	0	220	d	400
19		e ratio between tw ber is	o num	bers is 1: 4 and t	ne firs	t number is 12, t	hen th	e second
	(1)	36	(b)	18	0	48	d	42
20		e volume of a cubo	oid is 2	$20 cm^3$ and all th	e dime	ensions are dou	bled, tl	nen the new
	(1)	1,320	(b)	1,760	0	880	(1)	440
(21)	whic	ch of the following	is not	unit rate?				
	(a)	160 L.E weekly	(b)	60 L.E for each	©	120 km per 60 minutes.	(1)	1 kg of flour per a cake.
22	20%	of the number =	%of	the half of the Sa	me nu	mber.		380
The	(3)	40	(b)	30	0	20	d	10
63	ABC	D is A parallelogra	m of a	rea 160 cm ² , AB =	20 cm	and BC = 40 cr	n, then	the smaller

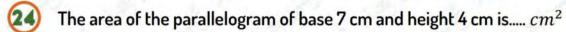




height is..... cm







- (a) 7+4
- (0) (7+4)×2
- © 7×4
- @ 7×4×2

The point (4, 6) is located..... units from the y axis.

(a) 4

(b) 6

- © 2
- **d** 10

The distance between the point (4, - 3) and it's image by reflection across the y axis is =...... units.

6

(b) 7

- **©** 8
- **d** 14

 $-2\frac{1}{4} \div ... = 1$

- $-\frac{4}{9}$
- **b** $-4\frac{1}{2}$
- $-\frac{9}{4}$
- **d** − 5/2

 $\frac{28}{4} \div \frac{1}{2} \dots \frac{2}{3} \text{ of } 6$

(b) >

- (c) =
- (d)

Which of the following ratios is not equivalent to $\frac{24}{48}$

 $\frac{14}{44}$

- $\frac{9}{18}$
- $\frac{23}{46}$

0.75 × 4.5 = 7.5 ×

- 0.45
- **(b)** 45
- **©** 4.5
- 0.045

the area of parallegram =

- (a) b-h
- (b) b×h
- (c) 2×(b×h)
- d h

The image of the point (-3,-7) by reflection across the x-axis is the point

- (-3.7)
- (b) (3,7)
- **(3,-7)**
- (-3,-7)

33 30% of a number = 150, then the number is......

- **a** 300
- **600**
- **©** 500
- **400**

- 24cm
- **b** 16cm²
- **24**cm²
- 16cm

 $35 \quad \dots \div \frac{4}{5} = \frac{5}{6}$

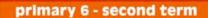
b $\frac{2}{3}$

- $\frac{8}{10}$
- $\frac{3}{5}$

36) 25% of 400 equals

- 250
- 200
- 100
- **d** 120







(27)	naint (0 2) lies
(37)	point (0,-3) lies

- on the y-axis
- in the third quadrant
- on the x-axis
- in the second quadrant



9

(b) 3

- C -3
- **1** 5

39 12 dm ... 150 mm

- (1)
- 237
- <
- **©** =
- otherwise

The volume of a cuboid whose length 7cm, width 5cm and height 4cm is cm^3

(a) 16

(b) 48

- 140
- **d** 63

The following ordered pairs (-1,1), (-1,-2), (2,1) and (2,-2) represent the vertices of a

- Square
- Triangle
- © Trapezium
- Rectangle

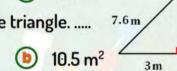
42) 12:20 = ... : ... (in the simplest)

- 2:3
- **(b)** 7:5
- 3:5
- **1** 5:3

40% of 50 kg = gm .

- 20000
- **b** 17500
- 20
- **1** 25

the area of the opposite triangle.



- 7 m C 21 m²
- (d) 22.8 m²

the point which is plotted 5 units to the right of the origin point and 2 units down....

(5,2)

(a) 10m²

- **(b)** (-5,2)
- (5,-2)
- (-5,-2)

If the ratio of the number of red balls to the number of blue balls is 1:5 and the number of blue ball is 25 then the number of red is

1 50

(b) 25

- 5
- **(1)**

if the height of rhombus is 7 and it's area is 35, then it is side length

(a) 5

(b) 30

- **©** 40
- **d** 3.5

 $50 \quad 5 \div \frac{1}{2}$

(a)

10 **(b)**

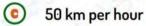
- $\frac{1}{2}$
- © 5

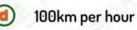
5 Hours

(1)

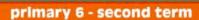
the unit rate of the opposite tape diagram is



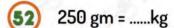












25

- **(b)** 2.5
- 0.25
- 0.025

- area of base + 4X area of triangular face
- **b** 4 X area of base + area of triangular face
- 6 4X area of base + 4 Xarea of triangular face
- area of base + area of triangular face

$$\frac{5}{2}$$
÷ 5 5

(a) =

(b) >

- © <</p>
- **(d)**

$$(55) 1 - (\frac{1}{4} + \frac{1}{2}) = \dots \%$$

50

b 25

- $\frac{3}{4}$
- **0.25**

- **a** 200
- **(b)** 250
- 1050
- **1** 210

- (a) (-2,5)
- (b) (2, -5)
- (2,5)
- (-2, -5)

(58) to find the simplest form of the ratio 210: 280 we divided the two term by

10

- **b** 70
- © 100
- **d** 30

0

(b) 2

- -2
- **d** 4

The image of the point (1,4) by reflection across the y-axis is the point

- **(-1,4)**
- **(1,4)**
- **(1,-4)**
- **(-1,-4)**

2.3

(b) 23

- 0.23
- 0.023

The area of parallelogram whose base length is 12m and corresponding height is

62) 5m=....cm²

(a) 45

(b) 17

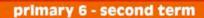
- © 60
- **d** 30

6

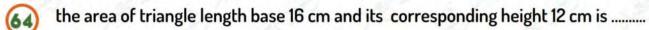
(b) 9

- © 3³
- d 23

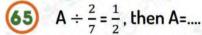








- (a) 28cm²
- **b** 48cm²
- © 96cm²
- (d) 196cm²



- **b** $\frac{2}{14}$
- $\frac{8}{10}$
- **d** 7

66) 40% of 900 equals

- 360
- **(b)** 300
- © 150
- **120**

point (A,-5) lies in the fourth quadrant then A =

(a) -14

(b) 0

- **©** -5
- **d**

- 68) The distance between (5,-9), (5,-2) isunit
 - 9

(b) 7

- (c) 11
- **d** -2

69) 2.5%of 700L.E =....L.E

25

- (b) 70
- 175
- **17.5**

The volume of a cuboid whose length 9cm, width 5cm and height 8cm is cm^3

- **a** 360
- (b) 157
- © 314
- **(d)** 660

 $\frac{2}{7} \div 7 \dots \frac{2}{5} \div \frac{1}{5}$

(1) <

(b) >

- (c) =
- **otherwise**

which the following is a conversion factor?

- b 60min
- $\frac{1,000cm}{1km}$

Question 02

Complete

1 0.8 × 20 =

- **2** 60 % $\frac{2}{4}$
- **3** 1 (25 % + 45%) =%

if the start point at (2, 3) and move 3 units to the left and 4 units up, then the end point is

(5) The surface area of a cube of edge length $4 \text{ cm} = \dots \text{cm}^2$

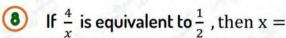
(6) Ali bought 3 kg of Mango for 30 L.E, then he paidL.E to buy 6 kg.

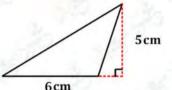
If the height of a rhombus is 5 cm and it's area is $30~{\rm cm^2}$, then it's side length is cm







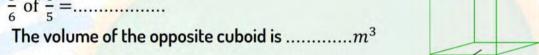




The reciprocal of
$$3\frac{1}{3} = \dots$$

$$\frac{5}{6}$$
 of $\frac{6}{5} = \dots$

(16)



17 If
$$\frac{x+1}{5}$$
 = 40%, then x=.....

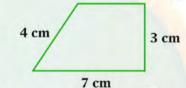
31) if
$$\frac{X}{8}$$
 is equivalent to 2 then X=.....

$$\frac{32}{7} = 1$$

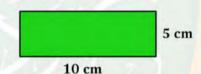




- the two bases of parallelogram are 10 cm and 5 cm the smaller height is 5 cm then the area is =cm²
- 35 $\frac{3}{8} \times \frac{1}{4} = \frac{3}{8} \div \dots$
- (36) If the ratio 6:8 is the same as: 32, then x =.....
- (37) The reciprocal ofis 10
- (38) 4.3 × 0.2=....
- (39) 0.2 =%
- 40 3.68 m =cm
- If a cube has an edge of 9cm then its surface area.....

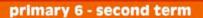


- Area of the opposite trapezim iscm²
- 43 Area of triangle =×...×...
- The ratio between length and perimeter is:

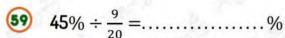


- 45) 8% of.....=36
- 46) 600 gram per sec =..... kg/min
- the point (3,0) is located on the..... axis
- 48 3/4 =%
- 49 Noah spends 48 L.E in 6 days ,then she spend.....in 10 days
- 50 ¹⁹/₂₀ 21%
- 20 % pupils in the class = 5 pupils, then the total number of pupils in class=.....
- 52) 350 cm=..... m
- 53 40% of 40 =.....
- the ordered pair representing the origin is......
- 55 3600 sec =hr.
-is a ratio that compare a quantity to one unit of second quantity.
- **57** 55% = 1-.....%
- 58 In the point (7,3),the X-coordinate is

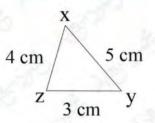








From the opposite triangle, find the ratio between xy and the perimeter of the triangle is:



- 61) if $\frac{4}{9}$ is equivalent to $\frac{x}{18}$, then $x-4=\dots$
- 62) 17× 2.25 =.....
- **63** 42:63 = 2:.....
- Find $x = \dots, y = \dots, from the opposite table$

girls	2	4	у
boys	3	×	15

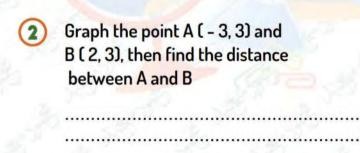
- (65) If the ratio between a and b is 3:5, and b is 10, then a =
- 66) 3.2 × 0.2 =
- The ratio between the number of red squares to the number of blue squares =.....

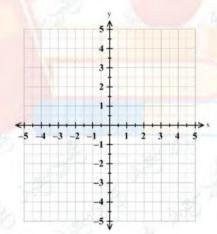


Question 03

Answer the following questions

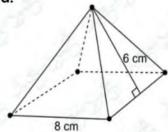
If the perimeter of an equilateral triangle is 90 cm and it's area is 180 cm², Find the height.





Find the surface area of the opposite square - based pyramid.

.....







Find the value of x:

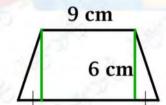
$$\frac{x}{6} = \frac{2}{3}$$

(b) $\frac{x+1}{20} = 40 \%$

- The number of students in school is 250, if 40% of them are absent. What is the number of the absent students in this school?
- Find the side length of cube in which the surface area equals $384 cm^2$.
- Mona bought a New T.V, she was given a 20% discount of its marked price which was 12,500 L.E --- Find its price after discount.

A runner covers 12kilometres in 3 hours Find the distance he covers in 2hours at the same speed.

The area of the opposite trapezium is cm^2



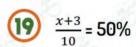
Mazen bought a shirt for 400 pounds with a 20% discount, what is price of the shirt after the discount?



12	A runner covers 24 kilometer in 4 hours find the distance he same speed.	covers in 10 hours at the
13	In the science exam , Ahmed got 70% and Rana got 40 mark has got a better score	s out of 50 which of them
		5 †
(14)	plot A (4,2), B (1,2), C(1,5), D(4,5), What is the	3+
	name of the figure ABCD?	2 - 1 - 1 - 1 - 1
	ABCD is	-5 -4 -3 -2 -1 1 2 3 4 5
		-2 +
		4-
15	In math exam , yasser got 90% and fayz got 40marks out of 60 which of them has got a better score , what is the score ?	e difference between their
16	Laila has 6 liters of milks, she needs to divide it into small be many bottles will she need?	ottles of $\frac{3}{4}$ liters each, how
17	find the corresponding height of the parallelogram whose a	rea 30 cm² base length 5 cm
19	calculate the surface area of the opposite triangular prism.	
10	그렇게 하는 그 아이를 보고 하는데 하는데 그 그렇게 하는데 모양하는데 하다 했다.	5 cm
		1
	4 cm	5 cm
		6cm 12 cm





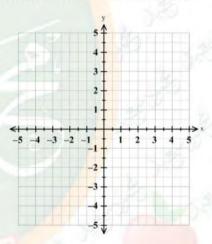


Mayar bought a car 660,000L.E she paid 40% of its price, How much money did she pay?

Find the value of X: $\frac{X}{15} = \frac{10}{30}$

plot A (4,-2), B (2,2), C(-2,2), D(-4,-2), What kind of shape do they make?

ABCD is



انتهت الأسئلة مع أطيب الامنيات بالنجاح والتوفيق

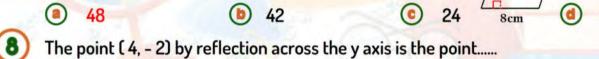


Second Term Questions Bank 🔈





	Question 01	Choose t	he correct an	swer	42.3	. 7	
1	The point lie	s in the third	quadrant		8	8	
	(a) (-5,2)	(b)	(5, 2)	0	(-5, -2)	(1)	(5, -2)
2	2.5 % of 800 L.E :	=L.E					
	18	(b)	20	0	25	(d)	22
3	If the ratio betwe	en A and B is	2:3 and the diffe	erenc	e of A and B is 2	0, ther	n A + B =
	100	(b)	80	0	90	(d)	120
4	The volume of cu	boid of dime	ensions 8 cm , 6 cr	n and	5 cm is cm	3	
k	210	(b)	240	0	200	(d)	260
(5)	28.32 ÷ <mark>2.4</mark> = 11. 8,	then 2.832 ÷	- 0.24 =				
	0.118	(b)	1.12	0	11.8	d	118
6	which pair shows	equivalent r	ratios?				
	3 to 4 and	$\frac{16}{20}$ b	1:4 and 4:6	0	$\frac{5}{6}$ and $\frac{6}{5}$	(d)	$\frac{21}{24}$ and 7:
7	The area of the o	pp <mark>osi</mark> te para	llelogram =	cm ²	6cm	7	
	(a) 48	(b)	42	0	24 8cm	(d)	36



(a) (-4, -2)(-4,2)(2, -4)(4,2)

How many $\frac{3}{4}$ s are there in 6 bananas?

10 (0) 12 30 % of a kilometer = meter

(b) 350 30

A parallelogram with area 20 $\rm cm^2$ and base length 4 cm, then it's corresponding height

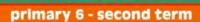




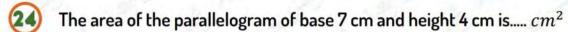
primary 6 - second term

				The state of the s	Laborator			حمود سعید
12	=	area of the oppos		6cm		Por por	0	
0	(a)	52	(b)	54 14 cm	(0)	45	(1)	60
(13)	If th	e x – coordinate o	f a poir	nt is zero, then the	point	lies		
	(1)	on the y-axis	(b)	on the x-axis	©	in the first quadrant	(1)	in the fourth quadrant
14		e height of a cubo inal volume is	id is div	vided in fourth, th	en the	ratio between	the ne	w volume to the
	(1)	1:2	(b)	4:1	0	1:4	(1)	4:2
(15)	The	height of a rhomb	ous who	ose area is 70 cm	and si	de length 10 cm	is	cm ²
	(1)	7	(b)	8	(0)	9	(1)	10
(16)	Whi	ch of the following	g is the	simplest form of	18 : 24	?		
_	(a)	8 :12	_	3:4	(0)	4:6	(d)	2 to 3
(17)	whi	ch of the following	_		x - ax			160
O	(a)	(3,0)	(b)		(e)	(0, - 3)	(d)	(3, -3)
_		n the opposite tap				x x		(0, -0)
(18)	11011	ir the opposite tap	c diagi	um, x	120			
	(3)	30	(b)	240	0	220	d	400
19		e ratio between tv nber is	vo num	bers is 1: 4 and t	he firs	t number is 12, t	hen th	e second
	(1)	36	(b)	18	0	48	d	42
20		e volume of a cub	oid is 2	$20cm^3$ and all th	e dime	ensions are dou	bled, tl	nen the new
	(1)	1,320	(b)	1,760	(0)	880	(1)	440
(21)	whi	ch of the following	is not	unit rate?				
	(a)	160 L.E weekly	(b)	60 L.E for each	©	120 km per 60 minutes.	d	1 kg of flour per a cake.
22	20%	of the number =.	%of	the half of the Sa	me nu	mber.		
	(3)	40	(b)	30	0	20	d	10
23		D is A parallelogra	m of a	rea 160 cm², AB =	20 cm	and BC = 40 cr	n, then	the smaller









- 7+4
- (0) (7+4)×2
- © 7×4
- @ 7×4×2

The point (4, 6) is located.... units from the y axis.

(a) 4

(b) 6

- © 2
- **d** 10

The distance between the point (4, - 3) and it's image by reflection across the y axis is =...... units.

6

(b) 7

- **6** 8
- **d**) 14

 $-2\frac{1}{4} \div ... = 1$

- $-\frac{4}{9}$
- **b** $-4\frac{1}{2}$
- $-\frac{9}{4}$
- d 5

 $\frac{28}{4} \div \frac{1}{2} \dots \frac{2}{3} \text{ of } 6$

(b) >

- © =
- (d)

Which of the following ratios is not equivalent to $\frac{24}{48}$

- **b** $\frac{14}{44}$
- $\frac{9}{18}$
- $\frac{23}{46}$

0.75 × 4.5 = 7.5 ×

- a 0.45
- **(b)** 45
- **6** 4.5
- 0.045

the area of parallegram =

- (a) b-h
- (b) b×h
- © 2×(b×h)
- d h

The image of the point (-3,-7) by reflection across the x-axis is the point

- (a) (-3.7)
- (b) (3,7)
- **(3,-7)**
- (-3,-7)

33 30% of a number = 150, then the number is......

- **a** 300
- **600**
- © 500
- **400**

the area of triangle length base 12 cm and its corresponding height 4 cm is

- 24cm
- **b** 16cm²
- © 24cm²
- 16cm

 $35 \quad \dots \div \frac{4}{5} = \frac{5}{6}$

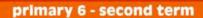
b $\frac{2}{3}$

- $\bigcirc \quad \frac{8}{10}$

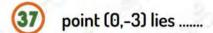
36) 25% of 400 equals

- 250
- **b** 200
- 0 100
- **d** 120









- on the y-axis
- in the third quadrant
- on the x-axis
- in the second (d)quadrant

The distance between (3.5), (-6.5) isunit

- 5

(39) 12 dm ... 150 mm

- otherwise

The volume of a cuboid whose length 7cm, width 5cm and height 4cm iscm³

48

- 140

The following ordered pairs (-1,1), (-1,-2), (2,1) and (2,-2) represent the vertices of a

- (a) Square
- (b) Triangle
- Trapezium
- Rectangle

12:20 = ... : ... (in the simplest)

2:3

- 7:5
- 3:5
- 5:3

40% of 50 kg = gm.

- (a) 20000
- 17500
- 20
- 25

- the area of the opposite triangle. (b) 10.5 m² (a) 10m²
 - 21 m²
- 22.8 m²

the point which is plotted 5 units to the right of the origin point and 2 units down.... 47)

- (5.2)
- (-5.2)
- (5,-2)
- (-5, -2)

If the ratio of the number of red balls to the number of blue balls is 1:5 and the number of blue ball is 25 then the number of red is

(1) 50

if the height of rhombus is 7 and it's area is 35, then it is side length

(a) 5

30

- 40
- 3.5

50

b 50 kg per hour

- $5\frac{3}{4}$
- 20

the unit rate of the opposite tape diagram is

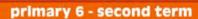
250kg per 5 hours



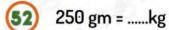


100km per hour







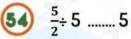


25

- **b** 2.5
- © 0.25
- 0.025

the surface area of square pyramids is =......

- area of base + 4X area of triangular face
- **b** 4 X area of base + area of triangular face
- 6 4X area of base + 4 Xarea of triangular face
- area of base + area of triangular face



(a) =

(b) >

- © <
- (d)

 $1 - (\frac{1}{4} + \frac{1}{2}) = \dots \%$

(a) 50

(b) 25

- $\frac{3}{4}$
- 0.25

35 I.E for 5 kg, the cost of 30 kg isI.E

- **200**
- **(b)** 250
- 1050
- **d** 210

the point lies on the first quadrant IS

- (a) (-2,5)
- (b) (2,-5)
- © (2,5)
- (-2, -5)

(58) to find the simplest form of the ratio 210: 280 we divided the two term by........

10

b 70

- © 100
- **d** 30

point (B, B-2) lies on the X-axis when B=

(a) 0

b 2

- C -2
- **d** 4

The image of the point (1,4) by reflection across the y-axis is the point

- (a) (-1,4)
- **(1,4)**
- **(1,-4)**
- (1,-4)

61) 23 100=...%

2.3

b 23

- 0.23
- 0.023

The area of parallelogram whose base length is 12m and corresponding height is

62) 5m=....cm²

(a) 45

(b) 17

- © 60
- **d** 30

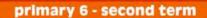
63 If B:2²=3:2, then B =....

(a) 6

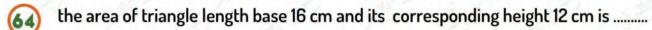
(b) 9

- © 3³
- d 2³









- (a) 28cm²
- **b** 48cm²
- © 96cm²
- (d) 196cm²

- **65** A ÷ $\frac{2}{7} = \frac{1}{2}$, then A=....

- **b** $\frac{2}{14}$
- $\frac{8}{10}$
- **d** 7

- 66) 40% of 900 equals
 - **a** 360
- **b** 300
- **©** 150
- **d** 120

- point (A,-5) lies in the fourth quadrant then A =
 - (a) -14

(b) 0

- © -5
- (1)
- 1-5

- (68) The distance between (5,-9), (5,-2) isunit
 - 9

(b) 7

- © 11
- **d** -2

- 69) 2.5%of 700L.E =....L.E
 - 25

- (b) 70
- 175
- **d** 17.5
- The volume of a cuboid whose length 9cm, width 5cm and height 8cm is cm^3
 - **a** 360
- **(b)** 157
- © 314
- **660**

- $\frac{2}{7} \div 7 \dots \frac{2}{5} \div \frac{1}{5}$
 - (1) <

- **(b)** >
- (c) =
- otherwise

- which the following is a conversion factor?

- b 60min
- $\frac{1,000cm}{1km}$

Question 02

Complete

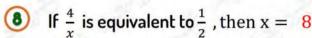
- 0.8 × 20 = 16
- **2** 60 %> $\frac{2}{4}$
- (3) 1 (25 % + 45%) = 30 %
- (4) if the start point at (2, 3) and move 3 units to the left and 4 units up, then the end point is
- (5) The surface area of a cube of edge length $4 \text{ cm} = 96 \text{ cm}^2$
- Ali bought 3 kg of Mango for 30 L.E, then he paid 60 L.E to buy 6 kg.
- 7) If the height of a rhombus is 5 cm and it's area is 30 cm^2 , then it's side length is 6 cm



 $Area = 25 \text{ m}^2$

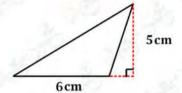






The area of the opposite triangle =
$$15 \text{ cm}^2$$

The reciprocal of
$$3\frac{1}{3} = \frac{3}{10}$$

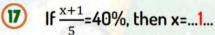


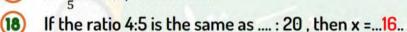
2.8 m

(12) A point is located 4 units to the left of the origin point and 2 units down, then the point is (

$$\frac{5}{6}$$
 of $\frac{6}{5} = 1$

The volume of the opposite cuboid is
$$70 m^3$$





20 If
$$0.035 \div 0.5 = A$$
, then the value of $A = ...0.07$...

$$\frac{1 \, kg}{\dots 1000 \, g}$$
 is a conversion factor

(23) If a cube has an edge of 5cm then its surface area is ..150.

25 360 minutes
$$\times \frac{...1hr...}{...60min....}$$
 = 6 hours

(29) if the price of microwave set is 5000 L.E then 10% of its price500......

31) if
$$\frac{x}{8}$$
 is equivalent to 2 then X=16......

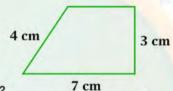
$$\frac{2}{7}$$
 ÷ $\frac{2}{7}$ = 1

the area of triangle = $\frac{1}{2}$ X base length X height (33)

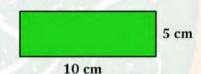




- the two bases of parallelogram are 10 cm and 5 cm the smaller height is 5 cm then the area is = ...10*5=50...cm²
- 35 $\frac{3}{8} \times \frac{1}{4} = \frac{3}{8} \div ... 4...$
- 36 If the ratio 6:8 is the same as: 32, then x = ...24...
- 37 The reciprocal of ... $0.1 = \frac{1}{10}$... is 10
- (38) 4.3 × 0.2=...0.86...
- (39) 0.2 = ..20.. %
- 3.68 m = ...368...cm
- If a cube has an edge of 9cm then its surface area. $486cm^2$.



- 43 Area of triangle = ...0.5...×...b.....×...h....
- The ratio between length and perimeter is ..10.. : .30...= ...1:3.....



- 45) 8% of.... 450 = 36
- 46) 600 gram per sec =......36... kg/min
- the point (3,0) is located on the.....x.... axis
- $\frac{3}{4} =75....\%$
- Noah spends 48 L.E in 6 days ,then she spend...80....in 10 days
- 50 ½ ... > 21%
- 20 % pupils in the class = 5 pupils, then the total number of pupils in class=.....25.....
- 52 350 cm=......3.5..... m
- 53 40% of 40=.....16......
- the ordered pair representing the origin is...... (0,0)......
- 55) 3600 sec =1..... hr.
- 66(unit rate)..... is a ratio that compare a quantity to one unit of second quantity.
- **57** $55\% = 1 \cdots 45 \dots \%$
- 58 In the point (7,3),the X-coordinate is ...7...

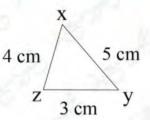








- **59** $45\% \div \frac{9}{20} = \cdots 100 \dots \%$
- From the opposite triangle, find the ratio between xy and the perimeter of the triangle is5....:12.....



- 61) if $\frac{4}{9}$ is equivalent to $\frac{x}{18}$, then $x 4 = \cdots 4$...
- 62 17× 2.25 = ···38.25....
- 63 42:63 = 2:...3....
- 64 Find x =6...., y =10......, from the opposite table.

girls	2	4	10
boys	3	6	15

- 65) If the ratio between a and b is 3:5, and b is 10, then $a = \cdots 6 \dots$
- 66) 3.2 × 0.2 = ...0.64...
- The ratio between the number of red squares to the number of blue squares =......5:3



Ouestion 03

Answer the following questions

If the perimeter of an equilateral triangle is 90 cm and it's area is 180 cm², Find the height.

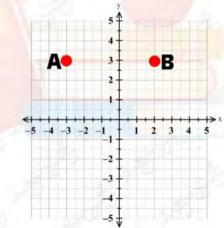
side length = $90 \div 3 = 30$ cm

Area of triangle = $\frac{1}{2} \times b \times h$

Height = $\frac{2 \times 180}{30}$ = 12 cm

Graph the point A (- 3, 3) and B (2, 3), then find the distance between A and B

The distance between A and B = I - 3I + 2 = 5 units

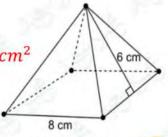


Find the surface area of the opposite square - based pyramid.

Area of squared base = $S \times itself = 8 \times 8 = 64cm^2$

Area of Triangular Sides = $4 \times (\frac{1}{2} \times b \times h) = 4 \times (\frac{1}{2} \times 8 \times 6) = 96 \ cm^2$

Area of square – based pyramid = $64 + 96 = 160 cm^2$.





Find the value of x: $\frac{x}{6} = \frac{2}{3}$

$$\frac{x}{6} = \frac{2}{3}$$

$$X = \frac{6 \times 2}{3} = \frac{12}{3} = 4$$

(b)
$$\frac{x+1}{20} = 40 \%$$

$$X+1 = \frac{40\times20}{100}$$
 $--- X+1=8$, $x=7$

The number of students in school is 250, if 40% of them are absent. What is the number of the absent students in this school?

The number of student =
$$\frac{40}{100} \times 250 = 100$$
 student

7 Find the side length of cube in which the surface area equals $384 cm^2$.

Area of cube =
$$6 \times s^2 - -$$
 Then, $s^2 = 384 \div 6 = 64$
S = 8 cm.

Mona bought a New T.V, she was given a 20% discount of its marked price which was 12,500 L.E --- Find its price after discount.

20 % of 12,500 L.E =
$$\frac{20}{100}$$
 × 12,500 = 2,500 L.E

The price after the discount = 12,500 - 2,500 = 10,000 L.E.

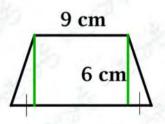
A runner covers 12kilometres in 3 hours Find the distance he covers in 2hours at the same speed.

$$\frac{12 \text{ km}}{2 \text{ km}} = \frac{3hr}{2hr}$$
 Then, the distance in 2hr is 8km

10 The area of the opposite trapezium is cm^2

area of rectangle=
$$9\times6=54cm^2$$

area of triangle (1) = $3~cm^2$
area of triangle (2) = $3cm^2$
then, area of trapezium= $54+3+3=60cm^2$





Mazen bought a shirt for 400 pounds with a 20% discount, what is price of the shirt after the discount?

discount =400×20%=80 pounds

Shirt after the discount = 400 - 80 = 320 pounds

A runner covers 24 kilometer in 4 hours find the distance he covers in 10 hours at the same speed.

Runner cover = $\frac{24}{4}$ = 6 kilometer / hour

Distance he covers in 10 hours = 6×10 = 60 kilometer

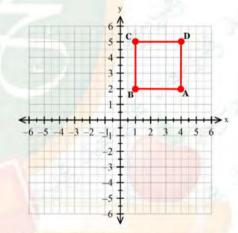
In the science exam, Ahmed got 70% and Rana got 40 marks out of 50 which of them has got a better score

Ahmed got 70%

Rana got = $\frac{40}{50} \times 100 = 80\%$, Rana has got a better score

plot A (4,2), B (1,2), C(1,5), D(4,5), What is the name of the figure ABCD?

ABCD is Square



In math exam, yasser got 90% and fayz got 40marks out of 60 which of them has got a better score, what is the difference between their score?

 $Yaser got = \frac{90}{100} \times 60 = marks$

Yasser has got a better score

Difference = 54 - 40 = 14 marks

Laila has 6 liters of milks, she needs to divide it into small bottles of $\frac{3}{4}$ liters each, how many bottles will she need?

No. of bottles = $6 \div \frac{3}{4} = 8$ bottles



12 cm

find the corresponding height of the parallelogram with area 30 cm2 base length 5 cm

5 cm

6cm

$$H = A \div b$$

(18) calculate the surface area of the opposite triangular prism.

Face
$$1 = 12 \times 6 = 72 \ cm^2$$

Face
$$2 = 12 \times 5 = 60 \text{ cm}^2$$

Face
$$3 = 12 \times 5 = 60 \ cm^2$$

Base
$$1 = \frac{1}{2} \times 6 \times 4 = 12 \ cm^2$$

Base 2 =
$$\frac{1}{2} \times 6 \times 4 = 12 \ cm^2$$

The surface area =
$$72 + 60 + 60 + 12 + 12 = 216 \text{ cm}^2$$

$$\frac{x+3}{10} = 50\%$$

$$X+3=5$$

X=2

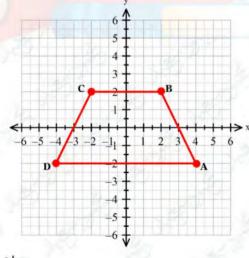
She paid =
$$660,000 \times 40\% = 264,000$$
L.E

Find the value of X: $\frac{X}{15} = \frac{10}{30}$

$$X = \frac{150}{30} = 5$$

plot A (4,-2), B (2,2), C(-2,2), D(-4,-2), What kind of shape do they make?

ABCD is Trapezium



انتهت الأسئلة مع أطيب الامنيات بالنجاح والتوفيق



Second term revision



First Question:

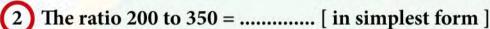
Choose the correct answer:

- - (A) 14

B 22.5

C) 45

D 54



- $A = \frac{20}{35}$
- B4:7
- C 7 to 4
- D 5:7
- The volume of a cuboid of base area 28 cm² and height 7.4 cm is cm³
 - A) 270.2
- B) 207.2
- C 202.7
- D 207.7
- 4 The next ratio of 2:5,6:15,18:45,......
 - A) 54:135
- B 54:90
- C 36:90
- D 54:180
- - (8,0)
- (B)(3,5)
- (C)(5,3)
- (0,8)

- 6) 3.6 ÷ 0.12 =
 - A 30
- B 3

C 0.3

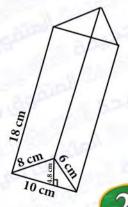
- D 0.03
- 7 If the percent of boys in a school is 52 %, then the percent of girls is
 - A) 52
- **B** 48

- C 0.48
- D 0.52

- $\begin{array}{c}
 8 \\
 \hline
 6 \\
 <
 \end{array}$ $\begin{array}{c}
 1 \\
 \hline
 3 \\
 \end{array}$ $\begin{array}{c}
 1 \\
 \hline
 3 \\
 \end{array}$
- **C** >
- 9 The Surface area of the traingular prism is m².
 - A 369

- B) 396
- D 864





(10)	24 % of 36	36 % of 24
	A	R –

2.5 % of 700 LE. =LE.

 $\frac{2}{5}$

C) 175

(D) 17.5

If the ratio of the number of red balls to the number of blue balls is 3:4 and the number of red is 24, then the number of blue is

(A) 18

(B) 32

(C) 12

(D) 44

The height of a rhombus whose area is 100 cm² and side lenght 12.5 cm is

A

(D) 10

 $(14) 0.453 \times 0.1 = \dots$

A 0.0543 B 4.53

C 0.0453

D 0.453

(15) 1 - 25 % =

(A) 75

B) 7.5

(C) 0.75

(D) 24

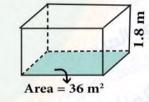
(16) The volume of the opposite cuboid is m³.

A) 96

B) 64.8

C) 75.24

D 58.8



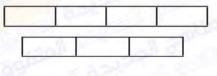
17) The opposite tape diagram represents the ratio

A) 3:4

B 4:3

(C) 1:3

D 3:5



A car consues $\frac{1}{10}$ liter of petrol to cover 1 Km, then it covers Km per liter.



- (19) Which ratio is equivalent to 75: 100?

 - (A) $\frac{7.5}{1}$ (B) 100:75
- C 140:200
- D 3 to 4
- (20) The point (3, -1) by reflection across the y-axis is the point ...

1 whole

4

4

4

- (A)(-3,1) (B)(-3,-1)

4

(3,1)

1 whole

4

4

4

4

(1, -3)

1 whole

4

(21) From the opposite model $,3 \div \frac{1}{4} = \dots$

0	3
A	4

 $\frac{4}{3}$

 $\frac{1}{12}$

4

(D) 12

4

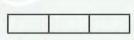
22) 3.5 cm 25mm





C =

23) The tape diagram



represents the ratio

A3:6

B) 1:2

(C)7:3

- $\bigcirc \frac{6}{4}$
- The surface area of the opposite square-based pyramid 8 cm 2 iscm².



B) 336

C) 528

D 240



25) If the ratio between number of oranges and number of bananas is 3 : 4 and the number of bananas is 20, then the difference between them is

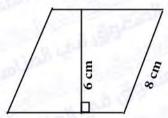
15

(26) The area of the opposite parallelogram =cm². 9 cm

A) 54

B 48

72





- (27) Which of the following is a unit rate?
 - A 40 L.E. per 2Kg

B 450 Km per 3 hours

2 liters per bottle

- 4 spoons of sugar per 2 cups (D)
- 28) From the opposite equivalent ratios

,A	+	B	=	
72.		_		

- A) 98
- B 97
- C) 96
- 4 36 B 9 A 36

(D)

- (29) The area of the triangle =

 - $(A) \frac{1}{2}bb$ $(B) \frac{b}{2} \times h$
- $\frac{C}{2}$ hh
- (D) b×h

- (30) The point which is plotted ony-axis is

 - (5,0) (5,0)
- (0,-2)
- D (-2, -2)

- (31) Which of the following is a conversion factor?
 - $\frac{4 \text{ km}}{1 \text{ hour}}$
- $\frac{60 \text{ min}}{1 \text{ sec}}$
- $\frac{1 \text{ week}}{7 \text{ days}}$
- 1,000 cm
- (32) The surface area of a cube of side lenght 3.2m is m²
 - (A) 61.44
- B) 32.768
- C) 40.96
- 10.24

- (33) If $111 \times 23 = 2553$, then $1.11 \times 2.3 = \dots$
 - A 255.3
- B) 25.53
- C) 2.553
- D 0.2553
- (34) Which of the following coparisons is showing a ratio?
 - A Four out of thirteen students like drama.
 - B) Fewer students like drama than adventure.
 - C) Five more students prefer fantasy than prefer drama.
 - D Four more students like art than math.



35 If the ratio between	a and b is 1 : 3 and	the sum of a and l	o is 20 , then b =
A 16	B 4	C 15	D 80
36 ABCD is a parallelo		m², AB =20 cm an	d BC= 40 cm
A 10	B 5	C 160	D 180
37) 54 LE. for 9 kg , then	the cost of 6 kg is		
A 36	B 9	© 27	D 45
38 The point (-2 , -3) li	ies in the q	uadrant .	
(A) first	B second	C third	(D) fourth
 39 The surface area of the iscm². A 324 C 810 	B	e prism 234 648	12 CM
40 Which of the follow	ing is a unit rate?		9 cm
A 9 kilometers per 2 C 42 cards per 6 pla		80 kilometers pe 7 cards for each	
41) To find the simplest	form of the ratio 8	: 16, we divide the	e two terms by
A 16	B 8	© 6	D 1
42) 55 % 2 5 A <	B =	© >	
43 If the x-coordinate o	f a point is zero , th	en te point lies	لحديث العنورين
Ain 1st quadrant	Ain 2nd quadrant	d On x-axis	Aon y-axis
44 If $2.2 \times 2.07 = 4.554$, then $22 \times 20.7 =$		
A 4554	B 455.4	C 45.54	D 4.554

- 45 The next ratio 3:6,6:12,12:24,.....
 - A 24:48
- B 36:72
- C 24:27
- D 12:48
- 46 If you need to buy 1.5 kilograms of apples for your mother at a cost of 40.50LE. per kilograms , how much would you pay ?
 - A 6.075LE.
- B 607.5LE.
- C 40.75LE.
- D 60.75LE
- Which of the following equations represents the area of the opposite parallelogram?

 - (B) $6 \times 4.8 = 28.8 \text{ cm}^2$
 - $8 \times 4.8 = 38.4 \text{ cm}^2$
 - $8 \times 10 = 80 \text{ cm}^2$
- 48) If the price of a shirt is 280 LE. before discount 10% then the discount isLE.
 - A 2.8
- A 28

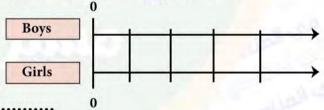
- A 252
- A 270

8 011

- 49 The pointlies in the 1st quadrant.
 - A (2,3)
- A (-1,2)
- A (4,-3)
- A(-6,-2)

From the opposite double number line:

If the ratio between the numbers of boys to girls is 5:6 and the total of boys and girls is 44 pupils, then the number of girls is



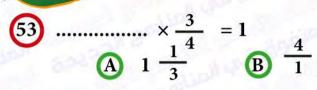
- A 20
- B 24
- C 4

D 6

- (51) The surface area of the cube =.....
 - \bigcirc S²
- $\mathbf{B} \quad \mathbf{S} \times \mathbf{S} \times \mathbf{S}$
- \bigcirc 6×S×S
- \bigcirc S+S+S
- 52 If the ratio between two numbers is 2 : 3 and the first number is 6, then the second number is
 - A) 12
- B 6

C) 9

D 12



- 54) A parallelogram with area 45 cm² and height 5 cm ,then it's corresponding base lenght isc
 - (A) 40
- 50

22.5

5 cm

- (55) From the opposite rectangle: The ratio between length and perimeter is
 - A 10:5

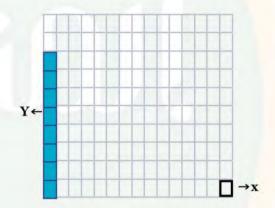
- 10:30
- 10 cm

C) 5:10

- 10:50
- From the opposite 10×10 grid:



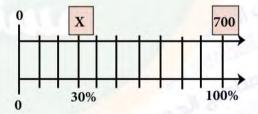
- A) 900
- **B** 54
- C) 63
- D 72



57) From the opposite double number line

- A) 70
- C) 210

- 140
- 420



- [58] The volume of a cuboid whose lenght 9 cm, width 5 cm and height 8 cm iscm³.
 - A 360
- **B** 157

- 314
- 626

- (59) Which of thr following is the best price?
 - A 25LE for 5kg B 6kg for 36LE.
- $\bigcirc \frac{1}{3}$ kg per LE. $\bigcirc \bigcirc$ 4LE. per kg

- - (A) $\frac{1}{4}$
- B 0.25
- C 2.5
- D 25

- - A 17.1
 - C 570

- B 19
- D 190

whole	part	percent
unknown	57	30 %

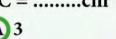
- (62) Which point is the closest to the x-axis?
 - A (2,5)
- (7,6)
- (C)(1,4)
- (0,2)
- 63 If the ratio between two is 2 : 5 and the saller number is 10,then the greater number is
 - A 4
- B 13

C 7

D 25

64 In the opposite figure:

ABC is a triangle in which, AD \(\preceder BC\), AD = 5cm, area of Δ ABC = 15 cm² then BC =cm



- **A**3
- B 6

C 9

- D 12
- 65 Which of the following ratios is NOT equivalent to $\frac{32}{64}$?
 - **A** $\frac{16}{32}$
- B 18:34
- $\frac{14}{28}$
- D 5 to 10

- 66 If $\frac{x+1}{4} = 25 \%$, then $x = \dots$
 - (A) 1
- B 2

© 3

- D 0
- 67) If the ratio between a and b is 1:4 and the sum of a and b is 25,then b=......
 - A 16
- **B** 4

C 5

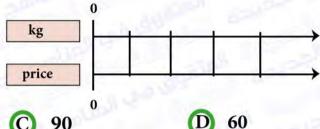
- D 20
- 68) 20 % of a number =....... % of half of the same number.
 - A 10
- B 20

C 30

D 40

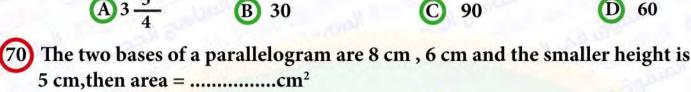


(69) From the opposite double number line If the price of one kilogram of orange is 15L.E. then the price of 4 kg isLE



- $A_{3}\frac{3}{4}$

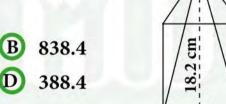
(B) 40



(71) $0.45 \times 3.5 = 4.5 \times \dots$ B) 3.5 A) 35

(A) 30

- (D) 0.035 (C)0.35
- (72) The surface area of the opposite square -based pyramid iscm²



C)48

- A) 886.4
- C) 834.8

(73) The volume of a cuboid of the base area 38.14 cm² and height 7.3 cm is

- A 442.278
- B) 278.422
- C) 278.224
- D 422.872

(D) 24

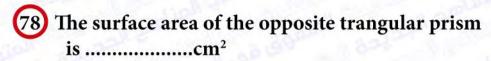
- 74) How many $\frac{1}{6}$'s are there in $\frac{1}{2}$ apple?
 - $\frac{1}{3}$

C) 12

- D 3
- (75) If the volume of a cuboid is 646.94 cm³ and one of its dimensions is doubled, then the new volume iscm³
 - A) 323.49
- (B) 1,293.88
- C 1,940.92
- (D) 646.94
- If 20 cups of flour uses to make 5 pizzas, thenpizza per a cup of flour.
 - (A) 100

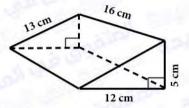
- (77) Which of the following ratios is equivalent to 12:18?
 - 6:8
- (B) 10 to 15
- 24:32

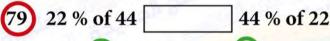




- A 140
- C 510

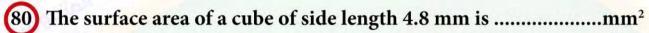
- **B** 550
- D 540





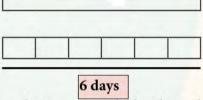
- **A** >
- **B** =

C <



- A 115.2
- B 138.24
- C110.592
- D 28.8

- A 60 m per 3 days.
- C 40 m per 2 days.
- B 20 m per day.
- D 40 m per 48 hours. 120 m



82 The surface area of a square pyramid, if the side length 8 cm and the height of the triangular face 9 cm is cm²

- A 208
- B 352
- C) 136
- D 100

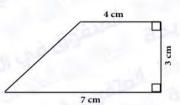
$$83 \frac{2}{7} \div \frac{2}{4} = \dots$$

- $\bigcirc \frac{4}{7}$
- $\frac{7}{4}$
- $\frac{4}{28}$

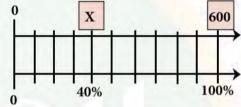
(D) 1

Second Question: Complete the following:

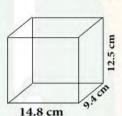
- (1) 3.4 × 0.2 =
- The area of opposite trapezium = cm²



- 3 The point (4,7) by reflection across the x-axis is the point
- 4 20 % + 50 % =
- 5 5 % of 600 kg = kg
- 6 From the opposite double number line ,x =



- 7 If 3: 7 is equivalent to 21: x, then x =
- 8 The surface area of the opposite rectangle prism is



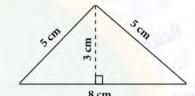
- $90.5 \times 0.2 = \dots$
- If the side lenght of a rhombus is 10 cm and it's height 3.4 cm, then it's area = cm²



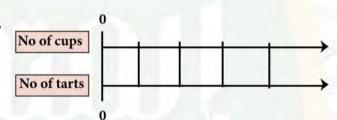
- (13) Area of square =
- 14 If the perimeter of one face in a cube is 60 mm, then its surface area ismm²
- 16 4.84 ÷ 0.8 =



- 18 If the ratio 7:13 is the same as x:52, then $x = \dots$
- 19 A cuboid of a square shaped base of side length 15 cm and height 8 cm, then its volume is cm³
- 20 A square of side length 2.5 cm, then its area = cm²
- (21)% of 600L.E. = 120L.E.
- 22) 48 km per hr =meter per min
- The area of the opposite triangle = cm²



24 From the opposite double number line. If sally used 2 cups of flour to make a tart, then she used 8 cups of flour to maketarts.



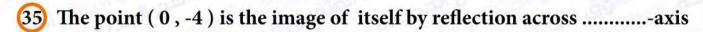
5 cm

- $25 \ 50 \% + \frac{1}{2} = \dots$
- $\frac{1}{2}$ % of 1 kg = gram
- The area of the opposite trapezium = cm²

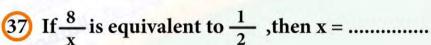
1 cm 1 whole

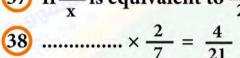
- 28 From the opposite model $,2 \div \frac{3}{4} = \dots$
- 29 A square -based pyramid, the perimeter of its base 24.4 cm, and the area of each triangulare face is 30.5 cm², then its surface area is cm²
- 30 The point (-3,-4) lies in thequadrant
- 31) 240: 300 = to (in simplest form)
- **32** The point (2 , 0) lies on the-axis
- 33 If the price of a T.V set is 18,000 LE. ,then 1 % of its price =LE.





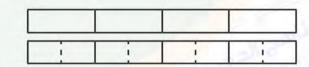
The area of the opposite triangle =



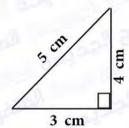


$$\frac{39}{3}$$
 33 $\frac{1}{3}$ % of 60 =

- 40 18 km per hour =m per min.
- 41 If the point A (2,7) moved 2 units to the right and 5 units down, then the point A will be (......)
- 42 The reciprocal of 5 is
- 43 The surface area of a cube of edge length 3.15 m is m²
- 44 Hanan bought 2 kg of banana for 30LE., then she paidLE. to buy 6 kg.
- 45 2.44 × 0.01 =
- From the opposite model, $\frac{3}{4} \div 2 = \dots$

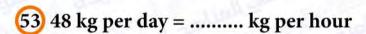


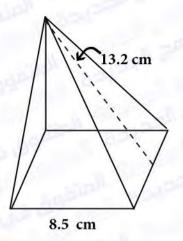
- $\frac{8}{9} \div \frac{4}{3} = \dots$
- 49 20 % + 40 % + 40 % =
- **50** The point (**2** , -**3**) lies in the quadrant.



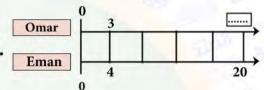


- (51) If the ratio 7:11 is the same ratio x:77, then $x = \dots$
- 52 The surface area of the opposite square-based pyramid is cm²

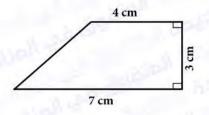




54 From the opposite double number line
, if the ratio between what Omar saved
to what Eman saved was 3: 4 if Eman saved 20 LE.
, then Omar saved LE.

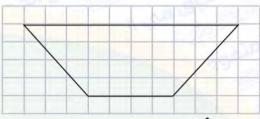


- 55) 25 L.E. per 5 kg, then the price of each kg =L.E.
- 56) 15 km per hr =km per min.
- **67)** 1 25 % =
- $\frac{68}{200} \text{ m} \times \frac{\dots}{0} = 0.2 \text{ km}$
- $\frac{X}{4} = 25 \%$, then $x = \dots$
- 60 10 L.E. for each kg, thenkg per L.E.
- 61 5000 km = m
- 62A store offer a discount 20 % on a shirt of price 400L.E., then its price after discount =L.E.
- 64) If the area of a rhombus is 24 m² and its height is 4 m, its side length is......m
- 65 Area of the opposite trapezium =cm²

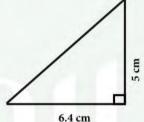




- 66 The area of the triangle whose base length is 4.8 cm and its corresponding height is 1.5 cm is cm²
- 68 The area of the opposite trapezium =.....square units



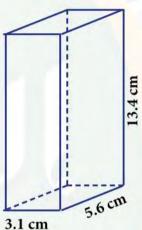
69 The area of the opposite triangle
= cm²



- 71) If $31 \times 25 = 775$, then $0.31 \times 2.5 = \dots$
- $\frac{4}{13} \div \frac{1}{13} = \dots$
- $\frac{2}{3}$ 5 ÷ $\frac{2}{3}$ =
- 74 Fifth of 15 =.....
- 75 7.23 ÷ 0.1 =
- $\frac{3}{4} = \frac{1}{2}$
- $\frac{3}{10} \div 3 = \dots$
- 78 3.4 × 0.27 =
- 79 The surface area of a cube is 150 m², then its side length ism
- 80 kg = 20 grams.
- (81) The surface area of a rectangular prism of length 7.4 cm, width 1.8 cm and height 3.5 cm is cm²



- 82 25 % of 1,000 = 50 % of
- 83 A rectangular prism, its base is a square of side length 6.8 cm and height 5 cm, then its surface area iscm²
- 84 The volume of a cuboid which base is a square of side length 12 cm and height 16.5 cm iscm³
- 85 If two dimensions in a cuboid are tripled, then the ratio between the original volume and new volume is
- 86 1.23 =%
- 88 The distance between (-2 , 5) and (-2 , -5) is units



مستر عماد عادل

First Question: Complete the following:

1 Plot the points A (1, -1)

$$,C(-3,3)$$

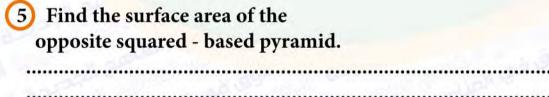
What is the name of the figure ABCD?

2. A man bought a T.V set . He was given a 15 % discount of its marked price which was 8,500 LE.

Find its price after discount

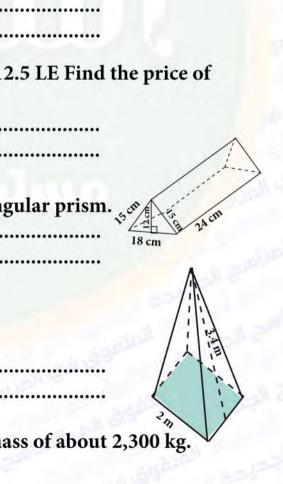
3 If the price of 15 pencils of the same kind is 112.5 LE Find the price of each pencil

(4) Calculate the surface area of the opposite triangular prism.



6 Each stone block in the Great pyramid has a mass of about 2,300 kg. How much is the mass of one block in grams?





3

-2 -3

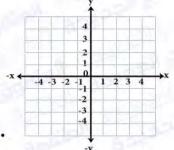
-4

In a mathematics exam , Youssef got 38 marks of 40 marks . Find the percentage of the marks he got.	
8 If 437.5 L.E.is distributed among the excellent pupils and each of them takes 17.5L.E. Find the number of excellent pupils.	
9) If the length of piece of cloths is 584 cm	
How many meter is the piece length?	
of a 1 liter container is filled with water. If a mug can contain $\frac{6}{56}$ of a liter, then how many mugs of water are needed to be filled with this aount of water?	
1) The two base lengths of a parallelogram are 8 cm , 6 cm and the smaller height is 3 cm Calculate the greater height of the parallelogram .	
A runner covers 24 kilometers in 6 hours. Find the distance he covers in 4 hours at the same speed.	
Wael bought a flat for 360,000L.E., he paid 30% of its price. How much money did he pay?	
-4 -3 -2 -1 1 2 3 -1 -1 -2 -3 -3 -3	4

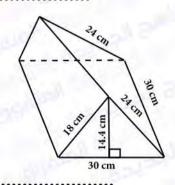


-у

Plot the following points on the grid.
A(4,-2), B(2,2), C(-2,2) and D(-4,-2) then connect them.

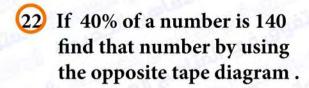


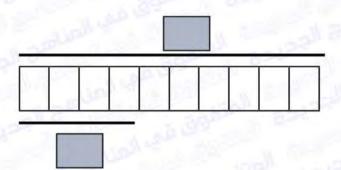
- What kind of shape do they make?
- 15 Find the corresponding height of the parallelogram with area 28 cm² and base length 4 cm.
- On most summer days, camels drink about 20,000 milliliters of water. How many liters of water is that? Show your calculations.
- 17 If Wael has 40 LE. and Ahmed has 32 LE. Find.
 The ratio between what wael has and the total sum of money in simplest form .
- Laila has 6 liters of milk. She needs to divide it into small bottles of $\frac{3}{4}$ liters each. How many bottels will she need?
- An employee saves LE. 600 monthly .If his monthly income is LE. 30,000 Find the percentage of what he saves monthly .
- 20 Calculate the surface area of the opposite triangular prism .



21) Suppose a particular caracal weight 30.5 kilograms. How many grams does te caracal weight?







23 Find the missing numbers in the opposite ratio table.

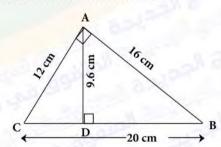
kg	1	2	3	4
L.E.				200

24 In the opposite figure:
ABC is a right-angled triangle at A, AD ⊥BC
If AC = 12 cm, AB = 16 cm, BC = 20 cm and AD = 9.6 cm
Find the area of Δ ABC in two ways.

25 If the height of the great pyramid is approximately 14600 centimeters. About how many meters tall is the pyramid?

60 Children from school went to a trip and this is 40 % of all children in the school.

How many all children in the school?





الاجابات النموذجية

Choose the correct answer:

$$\boxed{1} \quad 5 \times 9 = 45 \text{ cm}$$

$$(3) 28 \times 7.4 = 207.2$$

$$(7)$$
 1 - 52 % = 0.48

$$\frac{2.5}{100} \times 700 = 17.5$$

$$100 \div 12.5 = 8 \text{ cm}$$

$$13 \quad 100 \div 12.5 = 8 \text{ cm}$$

$$\boxed{21} \quad 3 \times 4 = 12$$

$$25 \quad 3 \times 5 = 15$$

$$\frac{1 \text{ week}}{7 \text{ day}}$$

$$35 \quad 3 \times 5 = 15$$

PALESTINE

200:350 ÷10 $20 \div 35 \div 5$

4:7

4) 54 :135

 $6) \quad 360 \div 12 = 30$

 $\frac{1}{2} > \frac{1}{3}$

10

0.0453

 $\begin{array}{c} 16 \\ 36 \times 1.8 = 75.24 \end{array}$

18 10

20 (-3,-1)

24 336

 $\begin{array}{c} 26 \\ 6 \times 9 = 54 \end{array}$

28 81 + 16 = 97

(0,-2)

 $32 \times 3.2 \times 6 = 61.44$

34 A

36) smaller $200 \div 40 = 5$

38) third

40 7 cards for each player

- **43 45** on y-axis
- 24:48
- $8 \times 6 = 48$ cm
- (2,3)
- $6 \times 5 \times 5$
- $\frac{4}{3} = 1\frac{1}{3}$
- 10:30
- $70 \times 3 = 210$
- (c)
- 47 49 51 55 57 59 61 63 65 67 69 71 73 75 77 $57 \div \frac{30}{100} \\ = 57 \times \frac{100}{30} = 190$
- $5 \times 5 = 25$
- 18:34
- $4 \times 5 = 20$
- $4 \times 15 = 60$
- 0.35
- $38.14 \times 7.3 = 278.422$
- 1940.92
- 10 to 15
- 79
- 81
- 83 **PALESTINE**

- 455.4
- 46 $1.5 \times 40.5 = 60.75$
- $280 \div 10 = 28$
- $6\times 4=24$
- $3 \times 3 = 9$
- 48 50 52 54 56 $45 \div 5 = 9 \text{ cm}$
- 72
- $9 \times 5 \times 8 = 360$
- 58 60 62 64 $\frac{60}{240} = \frac{1}{4} = 25 \%$
- (1,4)
- $\frac{2\times15}{5}=6$
- $\frac{x+1}{4} = \frac{1}{4}$ 66
- 40
- 68 70 $5 \times 8 = 40$
- 72 838.4
- $\frac{1}{2} \div \frac{1}{6} = \frac{1}{2} \times 6 = 3$ $\frac{76}{78} \quad 5 \div 20 = \frac{1}{4}$ $\frac{1}{2} \div \frac{1}{6} = \frac{1}{2} \times 6 = 3$

- 80 $4.8 \times 4.8 \times = 138.24$
- 82 208

Complete:

$$(4,-7)$$

$$\frac{5}{100} \times 600 = 30$$

$$7 \times 7 = 49$$

$$10 \times 3.4 = 34$$

$$13$$
 s×s

$$9 - 3 = 6$$

$$19 15 \times 15 \times 8 = 1800$$

$$\frac{1}{2} \times 8 \times 3 = 12 \text{ cm}^2$$

$$(4 \times 3) + (\frac{1}{2} \times 3 \times 3)$$

$$12 + 4.5 = 16.5$$

$$60 \times 4 = 240$$

$$14 15 \times 15 \times 6 = 1350$$

$$16 \quad 48.4 \div 8 = 6.05$$

$$18 \quad 7 \times 4 = 28$$

$$2.5 \times 2.5 = 6.25$$

20
$$2.5 \times 2.5 = 6.25$$

22 $48 \times \frac{1000 \text{ m}}{1 \text{ km}} \times \frac{1 \text{ hr}}{60 \text{ min}}$

$$48 \times 100 = 4800 \div 6 = 800$$

$$\frac{1}{2} \times 1000 = 500$$

$$2 \times \frac{4}{3} = \frac{8}{3} = 2 \frac{2}{3}$$

$$\frac{1}{2} \times 5 \times 4.8 = 12$$

$$\frac{2}{38}$$

$$\frac{1000 \text{ m}}{1 \text{ km}} \times \frac{1 \text{ hr}}{60 \text{ min}} = 300$$

$$\frac{1}{5}$$

$$6 \times 15 = 90 \text{ L.E}$$

$$\frac{3}{4} \times \frac{1}{2} = \frac{3}{8}$$

$$\frac{1}{2} \times 4 \times 3 = 6$$

$$\boxed{54} \quad 3 \times 5 = 15$$

$$\frac{1}{10}$$

$$64 \quad 24 \div 4 = 6$$

$$\frac{1}{2} \times 4.8 \times 1.5 = 3.6$$

$$\boxed{70} \quad 10 \times 7 = 70$$

$$\frac{4}{13} \times \frac{13}{1} = 4$$

$$74$$
 15 ÷ 5 = 3

$$\frac{1}{2} \div \frac{3}{4} = \frac{1}{2} \times \frac{4^{2}}{3} = \frac{2}{3}$$



$$43 3.15 \times 3.15 \times 6 = 59.535$$

$$7 \times 7 = 49$$

$$\frac{57}{59}$$
 75 % or $\frac{3}{4}$

$$63 \qquad 6 \times 7 = 42$$

(3×4) +
$$(\frac{1}{2} \times 3 \times 3)$$

= 16.5

$$67$$
 3.6 ÷ 0.9 = 4

$$\frac{1}{2} \times 5 \times 6.4 = 16$$

$$\boxed{73} \quad 5 \times \frac{3}{2} = \frac{15}{2} = 7 \frac{1}{2}$$

$$\frac{1}{10}$$

الترم الثاتي - الصف السادس الابتدائي

- 82 500
- 84) 2376
- 86) 123
- 88) 10

- 83 228.48
- 85 1:27
- 87 232.624

Story problem:

- 1 triangle
- $D = \frac{15}{100} \times 8500 = 1275$ After = 8500 1275 = 7225
- 3 112.5 ÷ 15 = 7.5 L.E
- (4) $(2 \times \frac{1}{2} \times 12 \times 18) + (2 \times 24 \times 15)$ $(24 \times 18) = 1368 \text{ cm}^2$
- $(5)(2 \times 2) + (4 \times \frac{1}{2} \times 3.4 \times 2)$ = 17.6 cm²
- 6 2300000 gram
- $\frac{38}{40} \times 100 = 95\%$
- 8) 437.5 ÷ 17.5 = 25 student
- 9 5.84 m
- $\frac{3}{7} \div \frac{6}{56} = \frac{3^{1}}{7_{1}} \times \frac{56^{8}}{6} = 4 \text{ mugs}$
- 11) $H = \frac{A}{B} = \frac{8 \times 3}{6} = 4 \text{ cm}$
- 12 unit rate = $24 \div 6 = 4$ distance = $4 \times 4 = 16$ km
 - FREE
 PALESTINE

- $\frac{30}{100} \times 360000 = 108000 \text{ L.E}$
- 14 Solve yourself
- **(15)** $h = 28 \div 4 = 7 cm$
- $\frac{16}{1000 \text{ mL}} = 20 \text{ litre}$
- 17 40:72 5:9
- $\frac{3}{6} \div \frac{3}{4} = 6 \times \frac{4}{3} = 8$
- 19 2%
 - $(2 \times \frac{1}{2} \times 14.4 \times 30) + (30 \times 24)$ $(18 \times 30) + (30 \times 30) = 2592$
- 21) 30500 gram
- Kg
 1
 2
 3
 4

 L.E
 50
 100
 150
 200

- 24 way₁ = $\frac{1}{2}$ × 16 × 12 = 96 cm² way₂ = $\frac{1}{2}$ × 20 × 9.6 = 96 cm²
- 25) 146 m
- $\frac{26}{60} \div \frac{40}{100} = 60 \times \frac{100}{40} = 150 \text{ children}$

مستر عماد عادل



Question (1) Choose the correct answer.

1) The number that names a part of a whole

(Digit - Fraction - Numerator - Denominator)

2) The number that tells how many equal parts are there

(Fraction - Numerator - Denominator)

3) The number that represented how many equal parts have been counted (Fraction – Numerator – Denominator)

4) There are quarter in 1 whole.

5)
$$\frac{6}{}$$
 = 1 (5 - 7)

6) The opposite model represents

$$(\frac{5}{4} - \frac{6}{4} - \frac{7}{4} - \frac{4}{4})$$

7)
$$\frac{3}{5} \div 2 = \dots$$
 $(\frac{6}{5} - \frac{3}{10} - \frac{6}{10} - \frac{3}{5})$

9)
$$\frac{1}{2} \div 8 = \dots$$
 $(\frac{8}{2} - \frac{2}{8} - \frac{8}{16} - \frac{1}{16})$

10)
$$\frac{4}{7} \div 1 = \dots$$
 $\left(\frac{-4}{7}\right)$

11)
$$\frac{2}{3} \div \frac{2}{3} = \dots$$
 ($\frac{4}{9}$ - $\frac{1}{3}$ - $\frac{9}{2}$

12)
$$\frac{2}{3} \div \frac{3}{2} = \dots$$
 $(\frac{4}{9} - \frac{1}{3} - \frac{9}{2})$

2nd term

Mathematics

Grade 6

15)
$$\frac{1}{3}$$
 Of 48 is

16)
$$\frac{3}{4}$$
 Of 24 is

17) When dividing a whole number by a fraction less than 1, the quotient is than the dividend.

18) There are thirds in 2 whole.

$$(8 - 7 - 6 - 5)$$

19)
$$\div$$
 $1\frac{1}{3} = 1$

$$(\frac{2}{3} - \frac{3}{2} - 2\frac{1}{2} - 1)$$

20)
$$\frac{3}{4} \div 3 = \dots$$

$$(\frac{4}{3} - \frac{9}{4} - \frac{1}{4})$$

21)
$$\frac{4}{7} \div \dots \dots = 1\frac{1}{2}$$

$$(\frac{8}{21} - \frac{21}{8} - \frac{6}{7} - \frac{7}{6})$$

22)
$$\frac{1}{4} \div \frac{1}{2} \dots \frac{1}{7}$$

$$(3\frac{3}{4})$$
 - $3\frac{1}{4}$ - $3\frac{1}{2}$)

$$(60.5 - 605 - 0.605 - 6.05)$$

25) If 48 × 38 = 1728, Then 17.28 ÷ 3.6 =

$$(480 - 48 - 4.8 - 0.48)$$

$$(2.9 - 29 - 290 - 0.29)$$

$$(3 - 30 - 300 - 0.30)$$

$$(67.6 - 0.0676 - 6.76 - 6706)$$

$$(2 - 3 - 11 - 7)$$

30) The ratio between two sides of square is

$$(1:4 - 2:4 - 1:1 - 1:2)$$

31) The next ratio of 3:6,6:12,12:24,

(24:48 - 36:72 - 24:27 - 12:48)

33) If the ratio is 1: 4 and their sum is 20, Then their difference is

34) If 2: 7 is equivalent to x: 21, Then x =

35) if
$$\frac{x}{2^2} = \frac{2}{1}$$
, Then $x + 1 = \dots$ (4 - 8 - 9 - 10)

37) A ratio is in the simplest form when the only factor between its terms is (2 - 3 - 0 - 1)

39) The ratio between any Rhombus perimeter and its side length is

$$(2 - 3 - 0 - 1)$$

40) A factory produced 20000 cans during 5 h, Then the rate of production is

(2000 - 3000 - 4000 - 4500)

43) Unit rate is a rate in which the second term is

$$(2 - 3 - 0 - 1)$$

2nd term

Mathematics =

Grade 6

44) 0.1 L of oil for 1 Pound, Then the cost of 6 L is Pound.

$$(6 - 0.6 - 60 - 16)$$

45) 32 L.E for 4 notebook, Then L.E for each notebook.

$$(8 - 4 - 128 - 16)$$

46) 48 L for 12 bottles, Then L for each bottle.

47) 24 apples for 6 kg, Then apples for each kg.

48) 15 km for 10 m, Then km for each minute.

$$(1 - 2 - 1.5 - 2.5)$$

49) 30 student for 6 benches, Then student for each bench.

$$(30 - 8 - 4 - 5)$$

50) 1000 L.E for 4 shirts, Then L.E for each shirt.

$$(100 - 200 - 250 - 300)$$

51) 210 passenger for 7 buses, Then passenger for each bus.

55) 52 kg = ton.
$$(5 - 0.5 - 0.050 - 0.052)$$

56)
$$7.5 \text{ kg} = \dots g.$$
 $(7.5 - 75 - 750 - 7500)$

58)
$$0.5 \text{ year} = \dots \mod 58$$

2nd term

Mathematics

Grade 6

59) 2 weeks = days.

(0.2 - 2 - 1.4 - 14)

60) 7 weeks = months.

(7 - 0.7 - 2.5 - 2.75)

61) 12 days = months.

(12 - 1.2 - 0.4 - 0.12)

62) 45 minutes = hours. (0.45 –

0.45 - 0.75 - 0.5 - 4.5)

63) A percent is a ratio it's second term is

(1 - 10 - 100 - 1000)

64) 0 % =

 $(0 - \frac{1}{4} - \frac{1}{2} - 1)$

65) 100 % =

 $(0 - \frac{1}{4} - \frac{1}{2} - 1)$

66) 50 % =

 $(0 - \frac{1}{4} - \frac{1}{2} - 1)$

67) 25 % =

 $(0 - \frac{1}{4} - \frac{1}{2} - 1)$

68) $\frac{2}{5}$ =%.

(5 - 40 - 100 - 50)

68) $\frac{7}{20}$ =%.

(30 - 40 - 35 - 45)

68) $\frac{3}{50}$ = %.

(5 - 6 - 60 - 50)

68) 0.8 =%.

(0.8 - 8 - 80 - 800)

68) 0.05 =%.

(0.05 - 0.5 - 5 - 50)

69) 80 % =

 $(\frac{4}{5} - \frac{2}{5} - \frac{1}{2} - \frac{5}{4})$

70) 55 % = -----

 $(\frac{10}{20} - \frac{20}{10} - \frac{11}{20} - \frac{20}{11})$

71) 32 % = -----

 $(\frac{25}{8} - \frac{8}{25} - \frac{32}{25} - \frac{25}{32})$

72) 60 % =

 $(\frac{3}{5} - \frac{5}{5} - \frac{5}{3} - \frac{5}{4})$

73) 63 % =

(0.3 - 0.6 - 0.63 - 0.36)

$$(0.3 - 0.2 - 0.25 - 0.52)$$

$$(1.2 - 0.2 - 2.1 - 0.12)$$

$$(1.05 - 1.5 - 0.15 - 5.1)$$

$$(180 - 200 - 90 - 100)$$

80) The signs (+, -) is locate in quadrant.

81) The signs (-,-) is locate in quadrant.

82) The signs (-, +) is locate in quadrant.

83) The signs (+, +) is locate in quadrant.

84) The signs (+, 0) is locate in

85) The signs (-, 0) is locate in

86) The signs (0, 0) is locate in

87) The signs (0, -) is locate in

88) The signs (0, +) is locate in

(X axis - Y axis - Origin point)

89) The image of the point (2, 5) by reflection on X axis is

$$((2,-5) - (-2,-5) - (-2,5) - (-5,2))$$

90) The image of the point (1, 8) by reflection on X axis is

$$((-1,-8) - (-8,-1) - (-1,8) - (1,-8))$$

91) The image of the point (2, 5) by reflection on Y axis is

$$((2,-5) - (-2,-5) - (-2,5) - (-5,2))$$

92) The image of the point (0, 5) by reflection on Y axis is

$$((0,-5) - (1,-5) - (0,5) - (-5,0))$$

93) The image of the point (0, 0) by reflection on X axis is

$$((0,0) - (1,-1) - (-1,1) - (-1,0))$$

94) The image of the point (0, 0) by reflection on Y axis is

$$((0,0) - (1,-1) - (-1,1) - (-1,0))$$

95) The image of the point (2, 5) by reflection on X axis and Y axis is

$$((2,-5) - (-2,-5) - (-2,5) - (-5,2))$$

96) lines is a two straight line which never cross and they keep the same distance apart. (Parallel – Intersecting – Perpendicular)

97) lines is a two straight line which passing through each other in the same point. (Parallel – Intersecting – Perpendicular)

98) lines is a two straight line which intersection and form four square corners. (Parallel – Intersecting – Perpendicular)

99) The area of square = $(S \times S - S + S - [S + S] \times 2 - \frac{1}{2} \times [S \times S])$

100) The area of rectangle =

$$(L \times W - L + W - [L + W] \times 2 - \frac{1}{2} \times [L \times W])$$

101) The area of parallelogram =

$$(b \times h - b + h - [b + h] \times 2 - \frac{1}{2} \times [b \times h])$$

102) In parallelogram the smaller height corresponding to Base.

103) In parallelogram the greater height corresponding to Base.

105) If the base length of the parallelogram is 12 cm and its corresponding height is 5 cm then its area = cm² (17 - 30 - 60 - 34)

106) If the base lengths of the parallelogram is 10 cm and 8 cm and its greater

height is 7 cm then its area = cm^2 (70 - 56 - 28 - 35) 107) If the base lengths of the parallelogram is 10 cm and 8 cm and its smaller

height is 7 cm then its area = cm² (70 - 56 - 28 - 35)

108) If the base lengths of the parallelogram is 10 cm and 8 cm and its greater height is 5 cm then its smaller height = cm (3 - 3.5 - 4 - 4.5)

110) is a parallelogram whose sides are equal in length.

(Square - Trapezoid - Rhombus - Rectangle)

111) A parallelogram with area 27 cm² and its base : height = 3 : 1, then its

base = cm
$$(3 - 6 - 9 - 12)$$

112) A parallelogram with area 32 cm ² and its	s base	: he	ight =	2:1	then	its	
height = cm	(4	- ا	- 6	_	8	_	12)
113) A rhombus with side 6 cm and its height	8 cm,	The	n its a	area	=		cm^2
	(1/	_	2/	_	48	_	28)
1. amm			24	_	40	_	20)
114) A rhombus with side 5 cm and its height	4 cm,	The	n its a	area :	=	•••••	cm ²
	(20	_	18	3	10	_	15)
115) A rhombus with perimeter 28 cm and its	heigh	nt 5 (cm, Tl	nen it	ts		
area = cm ²	(12	<u>}</u> \	24		35	2	18)
116) A rhombus with area 60 cm ² and its heigh	ght 12	cm,	Then	its si	de		7
length = cm	(5	_	12		72	_	6)
117) A rhombus with area 72 cm ² and its side	lengt	h 9 d	cm, Th	nen it	:s		
height =cm	(16		8	=	72	_	9)
118) A triangle with area 6 cm ² and its base:	heigh	t = 3	: 1, tl	hen it	ts bas	e =	
cm		rsr lasii			9		12)
110) A triangle with area 16 am² and its base	hoia		/	thon	ita ba	iaht.	_
119) A triangle with area 16 cm ² and its base	140	- 10				_	
cm		(2/			6	_	0)
120) The area of triangle = (b \times h $-$	b + h	1	[b + l	h] × 2	$2-\frac{1}{2}$	× [b	× h])
121) If the base length of the triangle is 10 cm	n and	its co	orresp	ondi	ing he	ight	is 7
cm then its area = cm ²	(17		35	_	70	_	34)
122) If the base length of the triangle is 5 cm	and it	s co	rrespo	ondin	ıg heiş	ght is	8
cm then its area = cm ²	(40	_	30	_	20	_	10)
123) A triangle with area 27 cm ² and its base	= 6 cn	n the	en its	heigh	nt =	•••••	cm
	(3	3 -	- 6	_	9	_	12)

124) A triangle with area 24 cm² and its height = 8 cm then its base =cm

$$(3 - 6 - 9 - 12)$$

125) is a quadrilateral which has only one pair of parallel sides.

(Square - Trapezoid - Rhombus - Rectangle)

Question (2) Complete the Following.

1) Any number divided by itself equals

2) Is the additive identity.

3)
$$\frac{15}{100} = 5$$

4) 0 divided by any number equals

5) The number which has only 2 factors is

6) The number which has more than 2 factors is

7) The smallest odd prime number is

8) The only even prime number is

9)
$$\frac{2}{10} = \frac{8}{10} = \frac{40}{30} = \frac{40}{10}$$

10)
$$\frac{1}{3} = \frac{4}{6} = \frac{16}{60} = \frac{1}{60}$$

11)
$$\frac{1}{1} = \frac{6}{15} = \frac{6}{30} = \frac{24}{15}$$

12) is the multiplicative identity.

13)
$$\frac{3}{4} \div \frac{3}{4} = \dots$$

14)
$$\frac{3}{4} \div \frac{6}{4} = \dots$$

15)
$$\frac{2}{3} \div 2 = \dots$$

d Hang

16)
$$\frac{5}{7} \div \frac{1}{7} = \dots$$

17)
$$\frac{5}{9} \div 2 = \dots$$

18)
$$\frac{6}{7} \div \frac{1}{6} = \dots$$

19)
$$\frac{25}{32} \div \frac{5}{8} = \dots$$

20)
$$\frac{2}{5}$$
 Of 25 is

21)
$$\frac{3}{7}$$
 Of 35 is

22)
$$\frac{1}{6}$$
 Of 42 is

23)
$$\frac{3}{4} \div \dots \dots = 1$$

24)
$$\frac{3}{4} \times = 1$$

25)
$$\frac{5}{7} \div \dots = 1$$

26)
$$\frac{1}{3} \div \dots = 8$$

27) The ratio between two quantity is called

28) If
$$\frac{x}{y} = \frac{z}{l'}$$
, Then $x \times ... = z \times ...$

29)
$$\frac{35}{50} = \frac{x+2}{10}$$
, Then $x = \dots$

30) Ali bought 2 kg of apple for 100 L.E, Then the price of 6 kg =

31)
$$\frac{8}{17} = \frac{16}{\dots}$$

32) The next ratio to 3:4,6:8,9:12,:

33) If the ratio between dogs and cats is 3:7 and the cats are 21, Then the dogs are

ned Hames

34) If $31 \times 25 = 775$, Then $0.31 \times 2.5 = \dots$

- 35) 7.23 ÷ 0.1 =
- **36)** $\times \frac{3}{4} = \frac{1}{2}$
- 37) $\frac{3}{10} \div 3 = \dots$
- 38) Fifth of 15 is
- 39) There are Halves in 8
- 40) Two thirds of 27 is
- 41) 3.3 × 1.1 =
- 42) 0.33 ÷ 0.011 = ÷ 11
- 43) 0.8 ÷ 0.2 =
- 44) Fourth of 8 is
- 45) How many $\frac{1}{8}$ in $\frac{1}{2}$
- 46) The reciprocal of 0.5 is
- 47) is a ratio that compares a quantity to one unit of second quantity.
- 48) Unit rate is a rate in which the second term is
- 49) 0.05 L of oil for 1 Pound, Then the cost of 6 L is Pound.
- 50) 42 L.E for 4 notebook, Then L.E for each notebook.
- 51) 84 L for 12 bottles, Then L for each bottle.
- 52) 36 apples for 9 kg, Then apples for each kg.
- 53) 13 km for 10 m, Then km for each minute.
- 54) 42 student for 6 benches, Then student for each bench.

55) 1200 L.E for 3 shirts, Then L.E for each shirt.

56) 675 passenger for 25 buses,

57) 2.3 km = m.

58) 1.8 m = dm.

7 ? mm = cm.

+on.

- 63) 1.5 year = months.
- 65) 5 weeks = days.
- 65) 10 weeks = months.
- 66) 21 days = months.
- 67) 15 minutes = hours.
- 68) $\frac{35 \ m}{1 \ min} \times \frac{1 \ mm}{1 \ hr}$.
- $69) \frac{20 cm}{1 min} \times - \times = \frac{m}{1 hr}.$
- 70) $\frac{125 \ cm}{1 \ min} \times \frac{km}{1 \ hr}$.
- 71) $\frac{0.048 \text{ km}}{1 \text{ sec}} \times ---- \times ---- = \frac{\text{km}}{\text{kr}}$
- 72) $\frac{60 \ m}{1 \ min} \times ---- \times --- = -\frac{m}{sec}$.
- 73) $\frac{120 \ km}{1 \ hr} \times ---- \times --- = -\frac{m}{min}$.
- 74) A percent is a ratio it's second term is
- 75) 0 % =

76) 100 % =

79)
$$\frac{4}{5}$$
 =%.

81)
$$\frac{9}{60}$$
 =%.

80) is a pair of numbers used to locate any point on a coordinate plane.

Grade 6

81)	Is the first number in an ordered pair which tells how far to
move left or right from	om the origin.

82) Is the second number in an ordered pair which tells how far to move up or down from the origin.

```
83) The coordinate of the origin is ......
```

84) If the point lies in X axis then it's coordinate is (x,)

85) If the point lies in y axis then it's coordinate is (........, y)

86) The point of intersection of X axis and Y axis is

87) The signs of the first quadrant is (.....,)

88) The signs of the second quadrant is (.....,)

87) The signs of the third quadrant is (.....,)

87) The signs of the fourth quadrant is (.....,)

88) The image of the point (7, 5) by reflection on X axis is

89) The image of the point (6, 0) by reflection on X axis is

90) The image of the point (3, 4) by reflection on Y axis is

91) The image of the point (7, 0) by reflection on Y axis is

92) The image of the point (0, 0) by reflection on X axis is

93) The image of the point (0, 0) by reflection on Y axis is

94) The image of the point (2, 3) by reflection on X axis and Y axis is

95) The distance between two point on a line = -

96) A (2, 6) and B (8, 6) Then the distance between A and B = units.

97) A (2, 6) and B (-5, 6) Then the distance between A and B = units.

Grade 6

98) A (2.5, 6) and B (-3.4, 6) Then the distance between A and B =units.

99) A (8, 10) and B (8, 6) Then the distance between A and B = units.

100) A (8, -4) and B (8, 6) Then the distance between A and B = units.

101) A (8, 5) and B (8, -3.6) Then the distance between A and B =units.

102) A (5, 9) and B (5, 9) Then the distance between A and B = units.

103) // represents that the two lines are

104) represents that the two lines are

105) The quadrilateral is a if it's all sides are congruent and parallel and all angles are right angles.

106) The quadrilateral is a if every to opposites sides are congruent and parallel and all angles are right angles.

107) Is a polygon which consist 3 sides.

108) Is a quadrilateral which has only one pair of parallel sides.

109) is a quadrilateral which every two opposite sides are parallel and equal in length.

110) of the parallelogram is the perpendicular length from a base to it's opposite base.

111) The area of rectangle =

112) The area of square =

113) is a parallelogram with equal sides.

114) The area of parallelogram =

115) If the base length of the parallelogram is 5 cm and its corresponding height is 6 cm then its area = cm²

Grade 6

116) If the base length of the parallelogram is 12 cm and its corresponding height is 11 cm then its area = cm²

117) If the base length of the parallelogram is 15 cm and its corresponding height is 5 cm then its area = cm²

118) If the base lengths of the parallelogram is 5 cm and 7 cm and its greater height is 7 cm then its area = cm²

119) If the base lengths of the parallelogram is 8 cm and 11 cm and its greater height is 9 cm then its area = cm²

120) If the base lengths of the parallelogram is 10 cm and 8 cm and its smaller height is 5 cm then its area = cm²

122) A parallelogram with area 48 cm² and its base : height = 3 : 1, then its base = cm

123) A parallelogram with area 64 cm² and its base : height = 4 : 1, then its height = cm

124) Area of rhombus =

125) A rhombus with side 3 cm and its height 5 cm, Then its area =cm²

126) A rhombus with side 9 cm and its height 7 cm, Then its area = cm²

18

127) A rhombus with perimeter 32 cm and its height 5 cm, Then its

area = cm²

128) A rhombus with area 50 cm² and its height 5 cm, Then its side

length = cm

129) A rhombus with area 49 cm² and its side length 7 cm, Then its

height = cm

Grade 6

- **130)** The area of triangle =
- 131) If the base length of the triangle is 7 cm and its corresponding height is 8 cm then its area = cm²
- 132) If the base length of the triangle is 6 cm and its corresponding height is 7 cm then its area = cm²
- 133) A triangle with area 84 cm² and its base = 12 cm then its height =cm
- 134) The area of right angled triangle which the lengths of the two sides of the right angle are 5 cm and 4 cm is
- 135) is a quadrilateral which has only one pair of parallel sides.
- 136) Surface area of cube =
- 137) Surface area of cuboid =
- 138) Volume of the cuboid = Or Or
- 139) The ratio of the new volume to the original volume when you doubled one dimension is
- 140) The ratio of the new volume to the original volume when you doubled two dimension is
- 141) The ratio of the new volume to the original volume when you doubled three dimension is
- 142) If one dimension of the cuboid is tripled, Then the ratio of new volume to the original volume is
- 143) If one dimension of the cuboid is divided into half, Then the ratio of new volume to the original volume is

Question (3) Essay problems.

- 1) A box of tennis balls weighs $\frac{5}{9}$ kg, If each ball weighs $\frac{15}{81}$ kg, How many balls are there is the box.
- 2) A piece of land with area 5 km² was divided among farmers, If each farmer took $\frac{5}{8}$ km², Find how many farmer are there.
- 3) The square shaped paper perimeter is $\frac{6}{11}$ m, Find the side length.
- 4) Mariam wants to make a cupcake for her birthday party and every cup cake requires $\frac{3}{7}$ kg of flour, and she have $\frac{36}{7}$ kg of flour, Find how many cupcakes can she make.

10) Marwa mom made 30 cupcakes and she put them in the oven and asked Marwa to switch the oven off after 30 m and take the cupcakes out of it, But Marwa with the bad luck drooped 6 cupcakes in the floor, Find the ratio between what the cupcakes which are ready for eating now and what are drooped in the floor.

11) Soha made 5 L of juice and she wants to divide it into $\frac{1}{3}$ L bottles, Find how many bottle will she need.

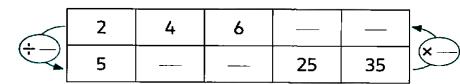
12) Moaz and Hassan in a race if Moaz ran $2\frac{2}{5}$ km in 15 minutes and Hassan ran $3\frac{12}{20}$ km in 20 minutes, Who ran more distance in 1 minute.

13) Complete each of the following tables to get equivalent ratios.

a.

	2		8		15		<u></u>
+2	1	2		9		27	[X:

b.



14) Complete the table for a ratio of 3 dogs and 5 cats.

Total	Dog	Cat
8	3	5
16	(A)	(B)
(C)	12	(D)

A)	C)

15) In our school if the ration between I	boys and girls is 6:7, If the number of
boys is 174, Find the number of girls.	

16) The following table shows the weight of oranges in kg and its price in L.E.

- a. Represent the table by double number line.
- **b.** Use double number line to find the price of 3 kg
- **c.** Use double number line to find the weight of orange that cost 90 L.E.

The price in L.E.				
15				
30				
60				
75				

۱				
				

17) Cheetah is the fastest animal in the world with speed 130 km per hour, Fin
the rate of speed.

.....

Grade 6

18) Dina wants to start studying before her final exams, she take 3 days to study every subject, Draw a tape diagram and write a numbers on it to represent the ratio of the number of the subject to the time it takes to study.

- A) How long does it take to study ner 7 300,300.

 B) How many subject will she study in 15 days

	Y /////			
~ •		tral su	ME ISHE	

19)

A market offers 3 sizes of oil, capacity and price of each size are shown in the following table.

Size	Capacity (L)	Price (L.E.)
Small	5	300
Medium	7	406
Large	9	495

- a. What is the price in L.E. per liter for each size?

 - (Small) _____ L.E. per liter. (Medium) ____ L.E. per liter.
 - [Large] _____ L.E. per liter.
- b. What is the capacity in liter per L.E. for each size?
 - (Small) _____ liter per L.E.
- [Medium] liter per L.E.
- (Large) _____ liter per L.E.
- c. Which is the best buy?

Grade 6

25) The great pyramid is approximately 14600 cm, about how many m the great pyramid.

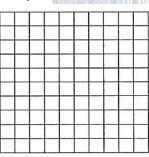
1-0MMP7

26) Mr. Omar Saleh's car is approximately 1652 kg, about how many ton Mr. Omar car.

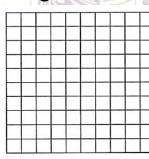
27) Winter season in Egypt is approximately 89 days, about how many weeks winter season.

Add at green but the second se

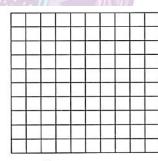
28) Represent each of the following.



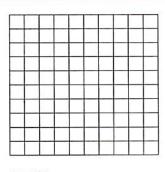
a. 38 %



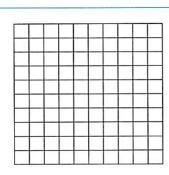
b. 5%



c. $12\frac{1}{2}\%$



d. 0.5 %

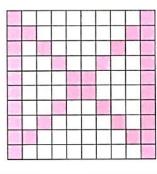


e. 125 %

			•••••••••••••••••••••••••••••••••••••••
••••••	••••••	• • • • • • • • • • • • • • • • • • • •	•••••••••••••••••••••••••••••••••••••••

29) A rope with length 12500 mm, Find how many m is this rope.

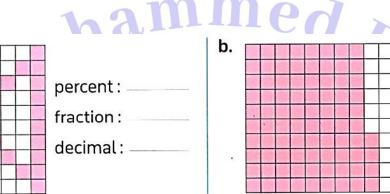
30) Complete.



percent:

fraction:

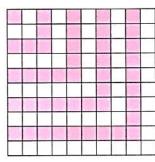
decimal:



percent:

fraction:

decimal:

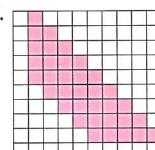


percent:

fraction:

decimal:

d.



percent: _____

fraction:

decimal: _____

31) A runner wins 17 times from 20 races, Find the percent of what he wins and what he loses.

32) Hany's homework is about 40 page, If he solved 26 page find the percent of

what he solved and what he didn't solve.

33) The weekly salary of a worker is 1200 L.E, If he spend 900 L.E find the percent of what he saves.
10111111111111111111111111111111111111
34) Noha bought 20 cupcakes for her birthday party which are 11 with chocolate and 9 with vanilla, Find the percent of each type of it.
35) Mazen went to buy a football boots which coast 1600 L.E and he find a store which make a discount and he bought it for just 1200 L.E, Find the percent of the discount.
36) Salma bought a mobile phone for 12000 L.E, She paid 40 % find what she paid.
37) A group of boys contains 25 boy, 16 of them choose to play football and the rest choose to play basketball, Find the percent to who chooses football and basketball.

50000 L.E, Find what Mohammed saves when he bought it in a discount.

38) Mohammed bought a motorcycle with discount 15 % and it's price was

39) Find each of the following ordered pair.





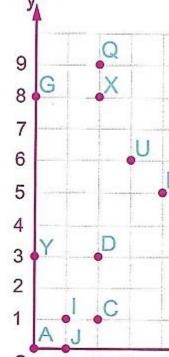














- B) Find the vertical distance between
- 1- G and Y
- 2- Q and D
- 3- F and P

C) Find the horizontal distance between

1_F and Q

2- H and J

ammed

3- P and U

40) Graph each of the following ordered pair.

A (3,5)

B (2,7)

C (0,8)

D (8,0)

E (4,1)

F (6, 2)

G(1,9)

H (2,3)

I (3, 0)

J (0,7)

K (3,9)

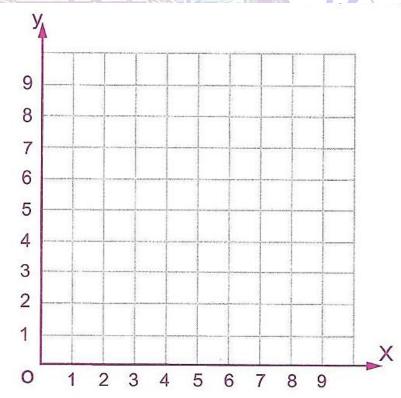
L (0,0)

M (9,5)

N (5, 6)

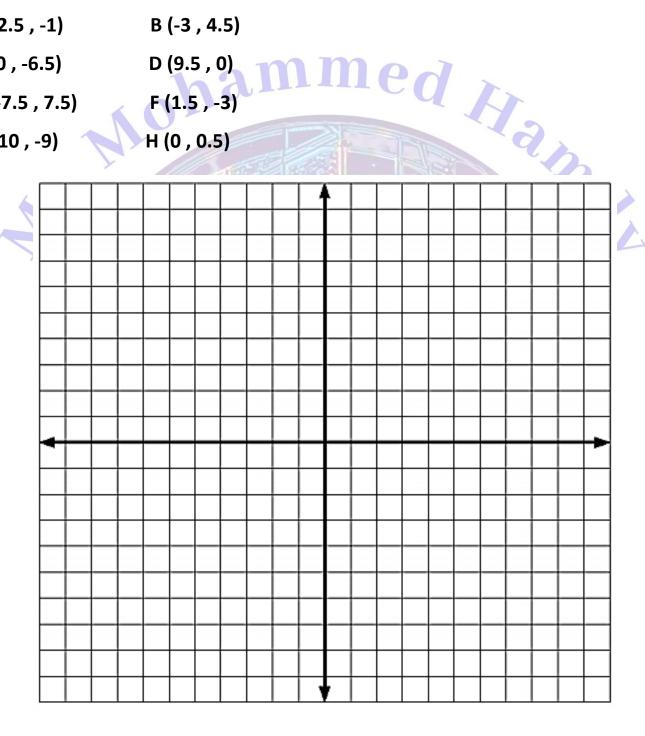
O (3,3)

Z (9,9)



41) Graph each of the following ordered pair and Find the image the first column by reflection on X axis and the second column by reflection on Y axis.

- A (2.5,-1) B (-3, 4.5)
- C (0, -6.5) D (9.5,0)
- F (1.5 , -3) E (-7.5 , 7.5)
- G (10,-9) H (0, 0.5)



42) Find:

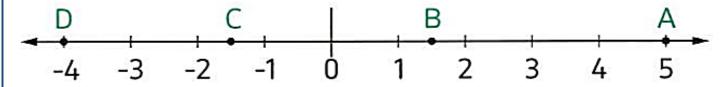


A) Value of A, B, C and D.

m m o a

B) Find The distance between A and D.

43) Find:



A) Value of A, B, C and D.

B) Find The distance between A and D.

C) Find The distance between B and C.

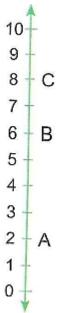
Grade 6

43) Find:

A) Value of A, B and C.

amma

B) Find The distance between A and C.

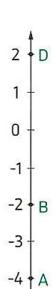


44) Find:

A) Value of A, B and D.

B) Find The distance between A and D.

C) Find The distance between A and B



45) Find.

A) Places in the first quadrant

B) Places in the second

quadrant

C) Places in the third quadrant

D) Places in the fourth quadrant

E) Find The distance between.

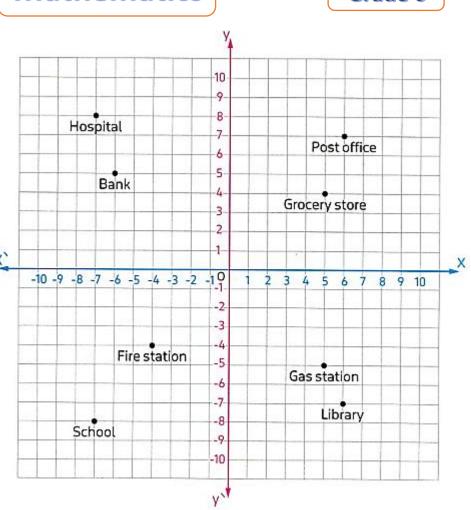


2- Gas station and Grocery store.

3- Library and post office.

F) Find the reflection of Bank and fire station on X axis.

G) Find the reflection of School and hospital on Y axis.



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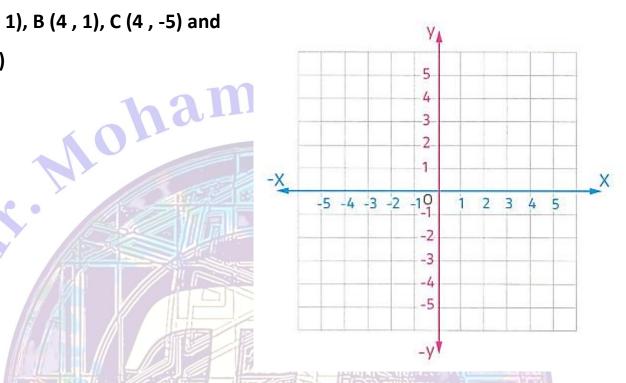
34

Mr. Mohammed Hamdy

46) Draw each of the following points and find the name of the shape.

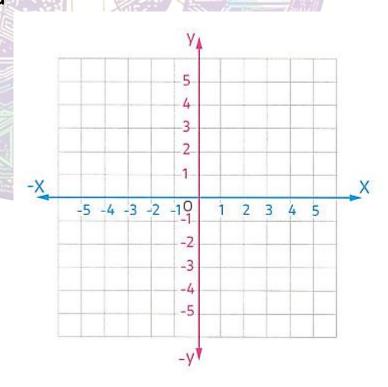
A) A (-2, 1), B (4, 1), C (4, -5) and

D (-2, -5)

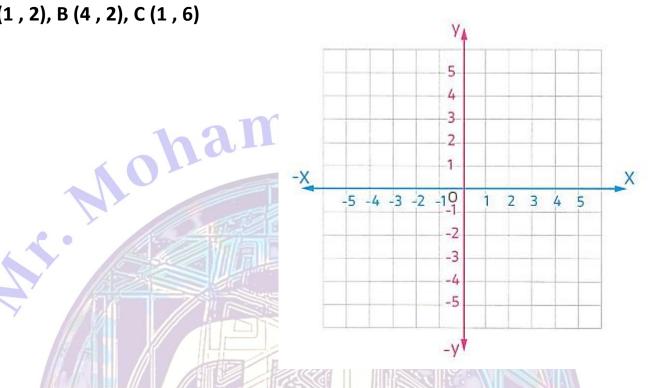


B) A (-2, -1), B (4, -1), C (4, 3) and

D (-2,3)

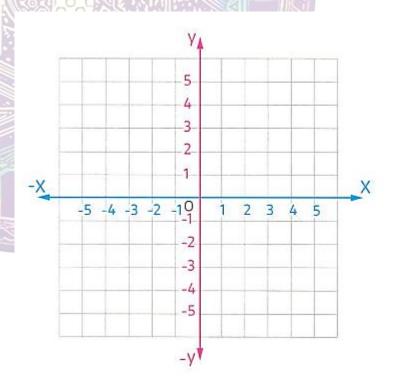


C) A (1, 2), B (4, 2), C (1, 6)



D) A (-4, -2), B (3, -2), C (2, 2) and

D (-1,2)



Grade 6

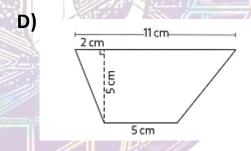
47) Find which shape will be the greater in area:
A) A square with side length 12 cm or a rhombus with side length 8 cm and its height 9 cm.
B) A parallelogram base 11 cm and its height 6 cm or a rhombus with side length 13 cm and its height 5 cm.
C) A square with side length 14 cm or a rhombus with side lengths 10 cm and its height 15 cm.
D) A rhombus with side lengths 12 cm and height 8 cm or a parallelogram with base lengths 11 cm and its height 9 cm.

D) A parallelogram with base length 13 cm and height 6 cm.

49) Find the area of each of the following.

A) 5cm 5cm

C) 6m



•••••••••••

50) Find the surface area of

A) A cuboid with L = 6 cm, W = 5 cm and H = 3 cm.

hammed .

B) A cube with s = 7 cm.

C) A cuboid with L = 10 cm, W = 5 cm and H = 5 cm.

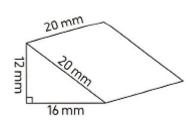
D) A cube with s = 6 cm.

E) A cuboid with L = 8 cm, W = 3 cm and H = 4 cm.

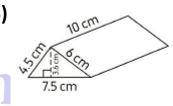
F) A cube with s = 10 cm.

51) Find the area of each of the following.

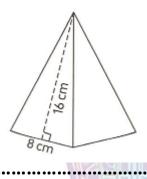
A)



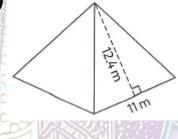
B)



C)



D)



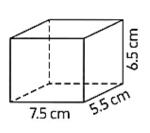
52) Find the volume of each of the following.

A) A cuboid with length 6 cm, width 5 cm and height 3 cm.

B) A cuboid with length 8 cm, width 4 cm and height 7 cm.

54) Estimate each volume and find the actual one.

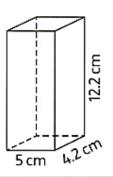
a.



Estimation = ---- cm³

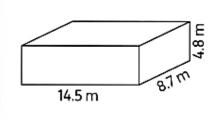
Actual volume = ——— cm³

b.



Estimation = —— cm³

c.



Estimation = ---- m³

Actual volume = ---- cm³ Actual volume = ---- m³



Part 1

Q1 / Choose the correct answer :-

1) 4 ÷
$$\frac{1}{3}$$
 =

- b) 4 d) 6
- c) 12

	1			1			1			1	
$\frac{1}{3}$	1	1	1	1	1	1	1	1	1	1	1
3	3	3	3	3	3	3	3	3	3	3	3

2) $\frac{1}{4} \div 5 = \dots$

a) $\frac{1}{20}$

c) 5

d) 20

1							
4							
1	1	1	1	1			
20	20	20	20	20			

1

3) You can use the opposite model to solve the problem

- a) $\frac{1}{10} \div \frac{1}{2}$ b) $\frac{1}{10} \div 5$ c) $\frac{1}{2} \div 5$ d) $\frac{1}{2} \div 10$ 4) $\frac{4}{7} \div \dots = 1\frac{1}{2}$

d) $\frac{7}{6}$

- 5) $\div \frac{3}{8} = \frac{5}{6}$

b) $\frac{15}{16}$

d) $\frac{5}{16}$

d) 3

- 7) $\times 1\frac{1}{2} = 1$

c) $\frac{3}{2}$

d) 3

- 8) $\frac{3}{5}$ × = 1

c) $1\frac{2}{3}$

d) 1

- 9) Half of 22 =
- a) 11

b) 22

c) 44

d) 2

10) How many $\frac{1}{6}$ s are there in $\frac{1}{2}$ apple ? d) $\frac{1}{3}$ a) 1 11) How many $\frac{3}{4}$ s are there in 6 apple ? d) $4\frac{1}{2}$ a) 8 12) 87.29 ÷ 0.29 = 872.9 ÷ a) 2.9 b) 29 c) 290 d) 0.29 13) 327 ÷ 24 = 3.27 ÷ a) 2.4 b) 0.24 c) 24 d) 2004 14) If $123 \times 45 = 5535$, then $1.23 \times 4.5 = \dots$ a) 55.35 b) 553.5 c) 5.535 15) If $127.92 \div 4.1 = 31.2$, then $12.792 \div 4.1 = \dots$ b) 3.12 c) 31.2 16) 48 × 36 = 1728 then 17.28 ÷ 3.6 = a) 48 b) 480 c) 0.48 d) 4.8 17) 0.33 ÷ 0.11 =÷ 11 a) 33 b) 0.33 c) 330 d) 3300 18) Yara uses $\frac{6}{9}$ cup of flour to make 2 cupcakes , how much flour is used to make 1 cupcake? a) $\frac{12}{8}$ d) $\frac{1}{9}$ **19)** $\frac{2}{3} \div \frac{1}{3}$ $\frac{1}{2}$ b) > 20) Any number multiplied by its reciprocal equals a) same number b) 0 c) 1 d) double number 21) The ratio between 6:14 in the simplest form is 3:..... a) 2 b) 3 c) 11 22) The ratio between two side lengths of square:..... a) 1:4 b) 2:4 d) 1:2 c) 1:1 23) To find the simplest form of the ratio 6:12, we divide the two terms by

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b) 3

a) 2

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d) 1

c) 6

24)	If	the ratio	between d	apples to c	oranges	is 4 : 7, th	hen ratio be	tween
or	ang	es to appl	es is	•••				
a) 1:	1:7		b) 7:4		c) 7:11		d) 4:7	
25)	Th	e total nu	mber of s	tudents in	a class	is 40 and	the boys ar	e 15 , then
tł	ne r	atio betwe	en girls a	nd boys is	······			
a) 3:	5		b) 5:3		c) 3:8		d) 5:8	
26)	If	the ratio	between t	wo numbe	rs is 1:	3 and the 1	first number	is 3 ,
tł	nen	the second	d number i	s				
a) 9			b) 3		c) 6		d) 12	
27)	If	the ratio	of the nu	mber of r	ed balls	to the num	nber of blue	balls is 3:
4	anc	l the numb	er of blue	is 24 , t	hen the	number of	red is	•••••
a) 18	3		b) 32		c) 44		d) 12	
28)	In	the oppos	ite figure	, AC:BE :	= :	A #	в "с	# D # E
a) 2:	3		b) 2:4		c) 1:4		d) 1:3	
29)	Th	e next rat	tio of 3:6	, 6,12 ,	12:24 ,			
a) 24	4:48		b) 36:72		c) 24:27	7	d) 12:24	
30)	If	the ratio	between c	and b is	1 :4 a	nd the sum	of a and b	is 20 ,then
Ь	=	• • • • • • • • • • • • • • • • • • • •						
a) 10	6		b) 4		c) 5		d) 80	
31)	If	the ratio	between o	ranges an	d banai	nas is 3 : 4	and the nu	mber of
bo	anar	nas is 20,	then the	difference	betwe	en them is .		
a) 5			b) 1		c) 15		d) 20	
32)	If	the ratio	between t	wo numbe	rs is 2:	5 and the s	smaller numb	oer is
10	O,th	en the gro	eater num	ber is	••••			
a) 13	3		b) 4		c) 7		d) 25	
33)	If	2:7 is equ	uivalent to	X:21 , tl	nen X =	••••••		
a) 12			b) 6		c) 7		d) 21	
34)	If	$\frac{8}{x}$ is equiv	valent to $\frac{1}{2}$, then X	=	•••••		
a) 10	5		b) 4		c) 8		d) 40	
35)	If	the ratio	7:13 is th	ne same ro	atio X:5	52 , then X	=	
a) 14	4		b) 21		c) 28		d) 35	

36) If $\frac{4}{7}$ is equivalent to $\frac{X}{35}$, then X - 3 =

37) If the ratio $\frac{3}{4}$ is equivalent to X : 12 , then X + 5 =

c) 9

38) Maria bought 2 kg of banana for 30 L.E. How much money does she pay to buy 6 kg?

a) 15

b) 34

c) 90

d) 60

39) From the following equivalent ratios B + A =

2 | 6 | B

a) 2:3

b) 5

d) 31

40) If the ratio between the number of oranges and the number of apples is 3:5 and the number of apples is 15, then the number of oranges is

a) 3

b) 5

c) 9

d) 15

41) The opposite tape diagram represents the ratio

b) 3:4

c) 3:5

d) 1:3



42) Which ratio is equal to 3:4?

43) $\frac{a}{b} = \frac{c}{d}$ Which of the following is true?

- a) $a \times b = c \times d$
- b) a×c=b×d
- c) $a \times d = c \times b$
- d) $c \times b = d \times b$

c) 9

d) 6

47) $\frac{3}{5}$ is NOT equivalent to

c) $\frac{12}{25}$

d) $\frac{18}{30}$

48) If $\frac{X}{2^2} = \frac{2}{1}$, then X + 1 =

c) 8

d) 9

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49) The simplest form of the ratio 550 to 770 is

- a) 7 to 5
- b) $\frac{55}{75}$

50) The product of extremes The product of means

a) <

b) >

51) 30 L.E. for 5 kg , then the cost of 30 kg is

a) 5

b) 30

- c) 180

52) Which of the following is NOT unit rate?

minutes

- a) 140 L,E.weekly b) 90 km per 60 c) 25 L.E. for each kg d) 2 kg of flour per a
 - cake

53) A car consumes $\frac{1}{10}$ liter of petrol to cover 1 km , then it covers km per liter.

a) 1

b) 5

c) 10

d) 20

54) The missing numbers in the opposite ratio table are

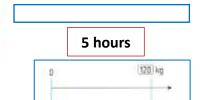
Kg	1	2	3	4
L.E.				200

- a) 40, 80, 120 b) 50, 100, 150 c) 45, 90, 135 d) 60, 120, 180

55) The unit rate of the opposite tape diagram is

250 kg

- a) 250 km per 5 hours b) 50 km per hour
- c) 55 km per hour d) 100 km per 2 hours



56) By using the opposite double number Line, the unit rate is

- a) 60 kg per day b) 30 kg per day c) 60 kg per 2 days
- d) 100 kg per 3 days

57) Which of the following is a conversion factor?

a) $\frac{3km}{1h}$

- b) $\frac{60min}{1sec}$
- c) $\frac{7days}{1week}$

d) $\frac{1km}{1000cm}$

58) Which of the following is NOT a conversion factor?

- a) 1 h = 3600 sec b) 12 months : 1 year c) 1000 mm = 1 liter
- d) $\frac{1min}{60sec}$

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59) $\frac{1 \, km}{m}$ is a conversion factor?

a) 1 hour

- b) 1000 m
- c) 100 m

d) 10000mm

a) 1 hour b) 100
60) $\frac{60 \text{ km}}{1 \text{ h}} \times \dots = \frac{60000 \text{ m}}{1 \text{ h}}$

- c) $\frac{1 m}{1000 km}$
- d) $\frac{1000 \, m}{1 \, km}$

61) 120 m per min = cm per sec

a) 12000

b) 200

c) 720

d) 1200

a) 12000 b) 200 62) 3.6 L x = 3600 mL

a) $\frac{1000 \ l}{1 \ ml}$

b) $\frac{100 \, ml}{1 \, l}$

- c) $\frac{1000 \, ml}{1 \, l}$
- d) $\frac{1 l}{1000 ml}$

63) $2\frac{1}{4} \text{ day} = \dots \text{ hours}$.

a) 54

c) 2400

d) 24

64) 360 sec =h.

a) 60

b) 10

c) 3600

d) 0.1

65) The conversion factor to conve<mark>rt the</mark> speed from m per min to km per hr is

- b) $\frac{1 \, km}{1000 \, m}$ c) $\frac{1 \, h}{60 \, min} \times \frac{1 \, km}{1000 \, m}$ d) $\frac{1 \, km}{1000 \, m} \times \frac{60 \, min}{1 \, h}$

66) 60 meters per hour = meter(s) per min.

a) 3600

b) 120

c) 360

d) 1

67) $\frac{1m}{m}$ is NOT a conversion factor

a) 100 cm

- b) 1000 mm
- c) 0.001 km
- d) 60 min

68) 4.8 L × == 4800 ml

- c) $\frac{1000 \, ml}{1 \, l}$

69) If the price of one kilogram of orange is 15 L.E. then the price of 4 kg is

a) $3\frac{3}{4}$

b) 30

c) 90

d) 60

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70) 3 : 10 = %

a) 30

b) 12

c) 25

d) 36

71) The opposite shaded area represents each of the following except



a) 36

b) 0.36

c) 36%

72) 50% of a number =

- a) the whole number b) half of a number c) third of a number
- d)quarter of number

73) Which value is NOT equivalent to 55%?

a) $\frac{11}{20}$

c) 0.55

d) 0.055

74) 1¹/₄ = %

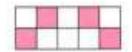
a) 25

b) 125

c) 75

d) 175

75) The opposite figure, The percentage of the shaded part to whole = %



a) 0.4

b) 40

d) 60

76) 1 - 25% =

a) $\frac{3}{4}$

c) $\frac{3}{9}$

d) $\frac{1}{9}$

77) If the percent of boys in a school is 62% then the percent of girls is

a) 62

b) 42

c) 48

d) 38

78) Marwan ate 75% of a pizza, so he ate half the pizza.

- a) exactly
- b) less than
- c) more than

79) class has 24 students, 50% of them succeeded in the mathematics exam, then the number of students succeded in the mathematics exam is

a) 24

b) 12

c) 18

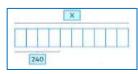
d) 6

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Math prim 6 2nd term — <u>Feacher</u> | Eman Samir

80) From the opposite tape diagram, $x = \dots$



a) 240

b) 600

c) 240

d) 60

81) From the opposite table, the value of unknown =

Whole	Part	Percent
Unknown	120	40 %

a) 30

b) 120

c) 480

d) 300

82) If the price of a watch is 350 L.E., then 1% of its price is

a) 3.5

b) 0.35

d) 0.035

83) If $\frac{x}{5}$ = 20%, then x =

a) 2

c) 4

d) 5

a) 20

b) 10

c) 80

d) 100

85) If the price of a TV set is 20,000 pounds, then 1% of its price = pounds .

a) 20

b) 200

c) 400

d) 2000

700

86) From the opposite double number line X =



b) 210

c) 140

d) 420

87) 25% of 1000 = 50% of

a) 2000

- b) 1500
- c) 1250

d) 500

Q2/ Complete the following :-

1) The reciprocal of $3\frac{3}{4}$ is

2)
$$\frac{4}{3} \div \frac{2}{9} = \dots$$
 (simplest form)

3)
$$5 \div \frac{1}{2} = \dots$$
 (simplest form)

4)
$$\frac{3}{5} \div \frac{3}{5} = \dots$$
 (simplest form)

5)
$$\frac{9}{10} \div \frac{12}{15} = \dots$$
 (simplest form)

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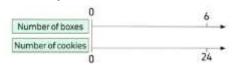
- 6) × 4 = 1
- 7) 2.3 × 4 =
- 8) 0.65 × 0.2 =
- 9) 0.676 × 0.1 =
- 10) 2.4 × 3.6 =
- 11) 54.45 ÷ 0.9 =
- 12) 4.8 ÷ 0.16 =
- 13) Fifth of 15 =
- 14) $\frac{2}{3}$ of 27 =
- 15) 3.3 × 1.1 =
- 16) The number of $\frac{2}{5}$ in 2 is
- 17) $\frac{3}{4} \div m = \frac{3}{8}$, then m =
- 18) $\frac{3}{4} \times m = \frac{3}{8}$, then m =
- 19) $5 \div \frac{2}{3} = 5 \times \dots$
- 20) The ratio between a and b is 4:5 if a = 20, then b=
- 21) The ratio between two numbers is 2:7 if the greater number is 21, then the smaller number is
- 22) if the ratio between two numbers is 4:3 and the sum of them is 14, then the two numbers are
- 23) The simplest form of the ratio 15: 18 is
- 24) The first term in the ratio 4: 7 is
- 25) The simplest form of the ratio 12 to 20 is
- 26) The ratio between the number of red beads and the number of green beads is 8:5 if the number of green beads is 15, then the number of red beads is
- 27) $\frac{5}{8} = \frac{15}{...}$
- 28) $\frac{35}{42} = \frac{....}{6}$
- 29) If the ratio between a and b is 3:8, and b is 16, then a =

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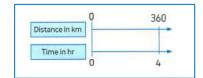
- 30) The ratio between two numbers is 4 : 5 and the greater number is 20 , then the smaller number is
- 31) If 4 to 9 is equivalent to $\frac{X}{36}$ then $X = \dots$
- 32) If Farida has 50 pounds and Malak has 25 pounds. Find the ratio between what Malak has and the total sum of money in simplest form is
- 34) If the ratio $\frac{7}{8}$ is equivatent to 14 : X , then x 2
- 35) The next ratio of 1 : 4 , 2 to 8 , $\frac{4}{16}$ is
- 36) If 2:7 is equivalent to x:14, then $X = \dots$
- 37) If the ratio $\frac{4}{9}$ is equivalent to $\frac{12}{X-1}$, then X =
- 38) From the opposite tape diagram, if the sum of boys and girls is 35, then each box equals



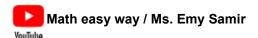
- 39) A car consumes 20 liters of benzene for 150 km , then its consumes 10 liters of benzene for km
- 40) If $\frac{5}{x} = \frac{15}{12}$, then 2X =
- 41) The ratio between side length of square and its perimeter is:.....
- 42) The ratio between side of equilateral triangle and its perimeter is ...:...
- 43) There are 24 cookies in 6 boxes, then the number of cookies in 3 boxes using the opposite double number line is



- 44) The ratio between perimeter of rhombus and its side length is:.....
- 45) The model represents ÷
- 46) From the opposite double number line, the unit rate is



- 47) gm = 30 kg
- 48) 1.500 kg = gm.



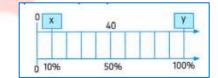


6 days

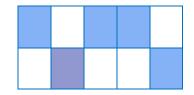
L.E.

- 49) 2.5 hr = min.
- 50) 60 meters per min = meter(s) per sec.
- 51) 54 L.E. for 9 kg , then the cost of 6 kg is
- 52) The unit rate from the opposite tape diagram is
- 53) 360 sec = hour(s)
- 54) 48 km per hr = meter per min
- 55) 120 km per hour = meter per min.
- 56) The percentage is a ratio
- **57)** 36% + 24% -17% =
- **58)** 12% 4% =
- **59)** 76% + 41% = 100%
- 60) 1 (39% + 0.21) = %
- **61)** 1 $\frac{3}{4}$ =%
- **62)** $\frac{7}{3} \times \frac{3}{7} = \dots$ %
- **63)** 15% 0.15 =
- 64) 225% $1\frac{1}{4}$ =
- **65)** $0.35 + \frac{9}{20} = \dots$ %
- 66) 28% + 52% + = 1
- 67) 15% + 0.35 + $\frac{1}{2}$ = %
- 68) 62.5% = $\frac{.....}{8}$
- 69) If $\frac{x}{9} = 15 \%$, then X =
- 70) If $\frac{2}{x+8} = 5 \%$, then X =
- 71) If $\frac{x+6}{20} = 50 \%$, then X =
- **72)** 35% ÷ $\frac{7}{20}$ = %
- 73) If the ratio 3:4 is equivalent to $\frac{9}{r-1}$ then x =
- 74) 10 % of 50 kg = gm

- 75) A store offers a discount 10% off on a shirt of price 300 L.E. , then the discount = L.E.
- **76)** 32% = 1 %
- 77) If the price of a ball is 120 L.E. then 10% of its price is L.E.
- **78)** 30% + $\frac{1}{2}$ =
- **79)** 1 $(\frac{1}{2}$ + 30 %) = %
- 80) 25% of 1,000 = 50% of
- 81) From the opposite double number line, the value of $x + y = \dots$



- 82) 15% of 240 kg = kg
- 83) 2 to 5 = %
- 84) From the opposite figure: The percentage of the shaded part to whole figure =



- 85) % of 600 L.E. = 120 L.E.
- 86) 20% of a number = % of half of the same number.
- 87) 45% of a kilometer = m

Q3/ Answer the following :-

- 1) Baher covered $\frac{2}{3}$ kilometers in 5 min. what is the distance covered in one minute?
- 2) If the price of one meter of cloth 9.8 L.E., what is the cost of 1.5 meters of cloth?
- 3) A runner covered $\frac{4}{5}$ kilometer in 2 Laps. How many kilometers did he run in one lap?
- 4) Farida has 6 titers of milk. she needs to divide them into small bottles of $\frac{3}{4}$ liter each. How many bottles does she need?
- 5) Noha uses $\frac{4}{9}$ cup of milk to make 2 mugs of coffee, so she uses cup of milk to make one mug of coffee.
- 6) A box of table tennis balls weighs $\frac{10}{18}$ of a kg. If each ball weighs $\frac{5}{27}$ of a kg , then how many balls are there in the box?
- 7) If you need to buy 1.5 kilograms of apples at a cost of 40.50 pounds per kilogram, how much money would you pay?

- 8) A car consumed 640 L of gasoline in 4 months, how many liters did the car consume in one month?
- 9) Seif bought 3 kg of oranges. He paid 36 L.E. How much money does he pay to buy 5 kg?
- 10) Ahmed bought 3 kg of banana he paid 45 L.E. How much money does he pay to buy 6 kg?
- 11) A runner covers 8 kilometers in 2 hours. Find the distance he covers in 4 hours at the same speed.
- 12) From the opposite figure X + Y =

3	12	×
5	У	10

- 13) If the ratio between number of boys and girls is 7: 6 and the number of girts is 42 girls, use the double number line to find:
 - a) The number of boys
 - b) The number of total pupils
- 14) The opposite table shows the ratio between boys and girls, then:
 - a) The value of A =
 - b) The value of B =
 - c) The value of C-B =

Boys	Girls	Total	
5	7	Α	
В	С	48	

15) Find the missing number in the following:

	0	2	4	6	8
Time [seconds]	\vdash	T	$\overline{}$	$\overline{\top}$	\top
Distance [meters]	L				
	0	0		21	22

3	9	
7		28

4	-
5	10

16) Find the value of X in each of the following:

a)
$$\frac{X-1}{5} = \frac{20}{25}$$

b)
$$\frac{4}{7} = \frac{X+3}{28}$$

- 17) Which is the longest 1.34 m or 200 cm?
- 18) Emad covered $\frac{3}{4}$ km in 6 min. What is the distance covered in 2 min?
- 19) Two machines produce cloth, the first one produces 365 meters in 5 hours and the second produces 480 meters in 6 hours. Which machine is better?
- 20) Each stone block in the Great Pyramid has a mass of about 2.300 kg. How much is the mass of one block in grams?
- 21) On most summer days, camels drink about 20,000 milliliters of water. How many liters of water is that? Show your calculations

- 22) Yara has 60 L.E. She spent $\frac{3}{5}$ of what she has. What is the percentage of the money she spent ?
- 23) There are 100 members in a club, half of them above 40 years. What is the percentage of the number of members that above 40 years?
- 24) The number of children in a nursery is 50, if 40% of them are vaccinated. What is the number of the vaccinated children in this nursery?
- 25) Youssef bought a car for 70,000 pounds, he paid 25% of its price. How much money did he pay?
- 26) The price of a mobile phone before a discount is 3,000 pounds. if the discount is 10 %, What is its price after the discount?
- 27) If a man deposited 20,000 pounds in a bank with interest 20% per year. Find the total amount which he gets at the end of one year.

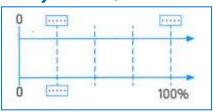
28) On the sale a shop offers a discount 20% if the price of an article is 1,600 pounds. Find its price after discount

29) A piece of cloth of 10 meters long, was put in water. it shrunk by 4% What is the length after shrinking?

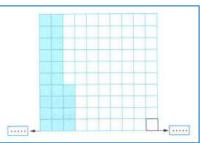
30) 20% of the students in a class are wearing black There are 40 students in the class. How many students are wearing black?

31) Find the value of each of the following by using the given model .

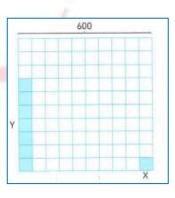
a) 25% of 80



b) 24% of a number is 72



32) From the opposite 10×10 grid , Find: X + Y .

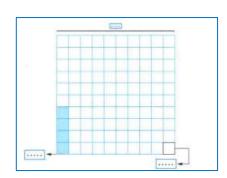


33) Find the value of X

$$a)\frac{x}{8} = \frac{10}{20}$$

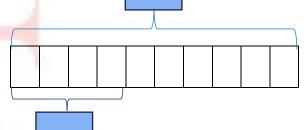
b)
$$\frac{x+1}{10}$$
 = 30%

34) Find the value of 4% of 200 by using the opposite 10×10 grid.



35) 60 Children from school went to a trip and this is 40% of all children in the school. How many all children in the school?

36) If 40% of a number is 140, find the number by using the opposite tape diagram .



Part 2

Q1 / choose the correct answer :-

1) point both of	whose coordinates	are negative will Li	e in
a) 1 st quadrant	b) 2 nd quadrant	c) 3 rd quadrant	d) 4 th quadrant
2) If the y-coor	dinate of a point is	s zero, then this po	oint always lies
a) 1 st quadrant	b) 2 nd quadrant	c) on Y-axis	d) on X-axis
3) point (0,-7) lie on		
		c) on Y-axis	
4) point (-3 ,4) lie on		
a) 1 st quadrant	b) 2 nd quadrant	c) 3 rd quadrant	d) 4 th quadrant
		<mark>s zero</mark> , then this po	
a) 1 st quadrant	b) 2 nd quadrant	c) on Y-axis	d) on X-axis
6) Which point li	ies in the <mark>thi</mark> rd qua	drant?	
a) (0 , -5)	b) (-5 , -11)	c) (-5,0)	d) (-5 , 11)
7) Which of the	following points lie	s on the y-axis?	
a) (-1 , 0)	b) (0 , -1)	c) (5,0)	d) (3,3)
8) The points (-	5 , 2) and (2 ,-5)	tie in the	
a) 2 nd and 4 th quadra	ints, respectively	b) Same quadrant	
c) 2 nd and 3 rd quadra	nts, respectively	b) Same quadrant d) 4 th nd and 3 rd quad	rants, respectively
9) The image of	the point (2,-5) b	y reflection across	the x-axis is the
point			
•	b) (-2 , 5)	c) (2,5)	d) (-2 , -5)
10) The image of	the point (4,0) by	reflection across	the y-axis is the point
-	-	c) (4,0)	-
		2 units to the right	
downward, then	n A will be	_	
a) (-2 , 0)	b)(0,1)		d) (1,1)
12) The distance	between a and b is		А В
a\ 1	h\ 4nita		-3 -2 -1 0 1 2 3 4 5
a) 1 units		c) 5 units	d) 6 units
	•		he length of AB =
a) 10 units	b) 4 units	c) 5 units	d) 9 units
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YouTube		19	

14) If the two points A(1,2) and B(5,4) are two vertices of a right-angled triangle ABC, then the point C could be a) (1,4) b) (1,3) c) (3,1) d) (4,1) 15) If A (1,3) and C (4,1) and AB \perp BC, then the point B is b) (1,1) c) (3,1) a) (1,4) d) (4,2) 16) The point (-2,3) lies in the a) 1st quadrant b) 2nd quadrant c) 3rd quadrant d) 4th quadrant 17) The distance between the point (2,3) and its image by reflection across y-axis = units . c) 6 d) 4 a) 3 b) 2 18) The point at the position (-1,3) has moved 2 units to the right and 3 units upwards then its new position is b)(0,5) a) (2,5) c) (0,6) d) (1,6) 19) In the opposite figure, the distance between the -190 210 two points A and B = units. d) 400 c) 190 a) 20 b) 210 20) Plot the points O (0,0), A (3,0), B (3,4), C (0,4) and draw OA, AB, BC and CO, which figure is obtained? c) trapezium b) rectangle d) rhombus a) square 21) Which point is a reflection of (12, -8) across the y-axis on a coordinate plane? b) (8, 12) c) (-8, 12) a) (-12,-8) d) (12,8) 22) The image of the point (-3, -5) by reflection in the x-axis lies in a) 1st quadrant b) 2nd quadrant c) 3rd quadrant d) 4th quadrant 23) Moving the point (3,4) 3 units to the right and 5 units down, then the end point is

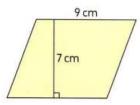
a) (0,9) b) (6,-1) c) (0,-1) d) (6,9)

- 24) Area of a parallelogram =cm²
 - a) 63

b) 16

c) 32

d) 79



25) The corresponding base in the parallelogram to the height DE is



b) BC

c) CE

- d) CD
- 26) Area of a parallelogram = cm²
 - a) 6.8

b) 11.2

c) 13.6

- d) 24.8
- 27) Area of a rhombus = m²
 - a) 14

b) 48

c) 24

- d) 28
- 28) Area of a triangle =cm²
 - a) 60

b) 16

c) 30

- d) 15
- 29) Area of a triangle =m²
 - a) 24

b) 12

c) 10

- d) 46
- 30) Area of a triangle =cm²
 - a) 63

b) 17.5

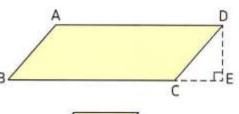
c) 35

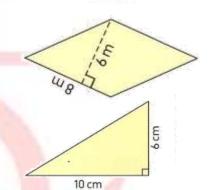
- d) 15.7
- 31) the value of X =
 - a) 3

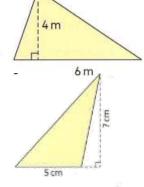
b) 12

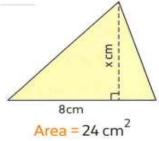
c) 6

d) 14

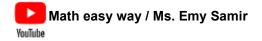








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20 cm

50 cm

- 32) Area of a trapezium = square units
 - a) 18

b) 20

c) 24

- d) 30
- 33) Area of a trapezium =cm²
 - a) 750

b) 1050

c) 900

- d) 2000
- 34) Area of a parallelogram =m²
 - a) 20

b) 12

c) 15

- d) 8
- 35) Which expression represents the area of the drawn triangle?

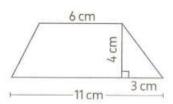


- a) $\frac{1}{2} \times 3 \times 5$ b) $\frac{1}{2} \times 2.4 \times 4$
- c) $\frac{1}{2} \times 3 \times 4$ d) $\frac{1}{2} \times 4 \times 5$
- 36) the area of opposite trapezium is cm²
 - a) 34

b) 30

c) 55

d) 40



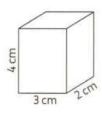
4 cm

- 37) The surface area of the following cuboid =cm²
 - a) 12

b) 52

c) 24

d) 104



- 38) The surface area of the following cube =cm²
 - a) 25

b) 75

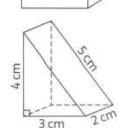
c) 50

- d) 150
- 39) The surface area of the triangular prism =cm²
 - a) 24

b) 48

c) 36

d) 56



Math easy way / Ms. Emy Samir

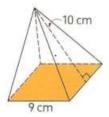
5 cm

- 40) The surface area of the square pyramid =cm²
 - a) 148

b) 240

c) 156

d) 261

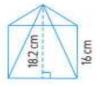


- 41) The surface area of the square pyramid =cm²
 - a) 886.4

b) 838.4

c) 834.8

d) 388.4

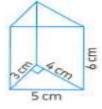


- 42) The surface area of the square pyramid =cm²
 - a) 72

b) 84

c) 42

d) 60

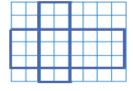


- 43) The surface area of the following cuboid =cm²
 - a) 30

b) 16

c) 32

d) 24



- 44) A parallelogram with area 24 cm² and base length 6 cm, then its corresponding height =
- a) 3

b) 4

d) 6

- 45) Area of a parallelogram =
- a) b + h

b) b ÷ h

c) b × h

- d) $(b+h) \times 2$
- 46) The height of a rhombus whose area is 10 cm² and side length 50 mm is cm
- a) 5

b) 20

c) 2

- d) 500
- 47) Area of a rhombus whose side length is 2.4 cm and its height is 2 cm is cm²
- a) 4.8

b) 5.6

c) 8

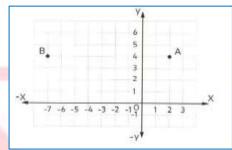
d) 10.2

- 48) Area of triangle =
- a) $\frac{1}{2}$ + b + h b) $\frac{1}{2}$ × (b + h) c) $\frac{1}{2}$ × b × h
- d) $2 \times b \times h$

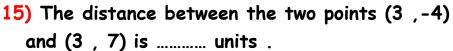
49) If ABC is a r	ight-angled triangl	e at B , and BC =	10cm , $AB = 8cm$
then its area =	c m ²		
a) 40	b) 80	c) 18	d) 9
50) If the area o	f a triangle is 30.	25 m² and its base	length is 5.5 m, then
its correspondi	ng height =	.m	
a) 5.5	b) 11	c) 2.75	d) 24.75
51) If the perime	ter of an equilater	al triangle is 27cm	and its height is 7.8
cm , then its a	rea =cm²		
a) 105.3	b) 210.6	c) 70.2	d) 35.1
52) A rhombus of	side length 14 cm	and the ratio betw	veen its height and its
side length is 5	: 7, then the area	of the rhombus is	•••••
a) 35cm ²	b) 70cm ²	c) 100cm ²	d) 140cm ²
53) The side length	gth of th <mark>e cu</mark> be w <mark>h</mark>	<mark>nich</mark> its surface are	a equals 96 m² equals
•••••			
a) 5m	b) 3m	c) 2m	d) 4m
54) Which of follows	owing expressions r	<mark>rep</mark> resents the surf	ace area of a cube
with side lengtl			
a) w ²	b) 6w ²	c) 6w ³	d) $2w + 4w^2$
55) If the three	dimen <mark>si</mark> ons of a cu	<mark>boid are doubled,</mark> t	hen the ratio between
the new volume	to the original vol	ume of the cuboid	is
a) 8:1	b) 1:8	c) 1:4	d) 4:1
56) The perimeter of one face of a cube is 28 cm, then the surface area of			
the cube is			
	••••		
a) 168	b) 244	c) 294	d) 314

Q2 / Complete the following :-

- 1) If the two points A(-2,2) and B(3,a) are on the same horizontal line in the coordinate plane, then $a = \dots$
- 2) In the opposite figure: if AB = 30 units, then X =
- 3) The image of the point (-4,1) by reflection in the y-axis is the point
- 4) If the point (-1,4) is the image of the point (a, b) by
 reflection in the y-axis, then a+b =
- 5) The distance between the point (0, -4) and the origin $O = \dots units$.
- 6) The figure with the vertices A (2,5), B (-2,5), C (-2,-1) and is called
- 7) In the opposite coordinate plane, the length of AB = units.

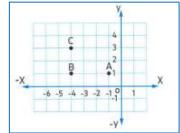


- 8) You are at (- 1 ,0). Move 2 units Left and 5 units up. Where do you land?
- 9) The distance between C(3,-4) and D(3,-2) is units
- 10) The image of the point (2,-4) by reflection across the x-axis is
- 11) The point (4,3) lies in the quadrant
- 12) The image of the point (3,1) by reflection across the y-axis is the point
- 13) The point $(-2\frac{1}{4}, 0)$ lies on the -axis.
- 14) The distance between A and B is units .





- 16) The distance between A (2, y) and B (2,-1) is 6 units and the point A lies in first quadrant, then $y = \dots$

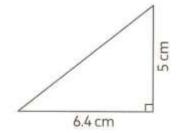


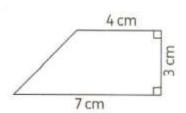
- 18) The distance between the point (1 ,2) and its image by reflection across x-axis = units .
- 20) A point is located 2 units to the left of the origin point and 3 units up 'then the point is
- 21) Start at the point (5,3) and move 2 units left and 4 units up, then the end point is
- 22) The point (4, 2) is units from the y-axis
- 23) parallelogram is of area 3.6 m² and a base length 0.9 m, then its corresponding height ism
- 24) If a base length of a phraseogram is 10 m and its corresponding height is 3 m less than it, then the area of the parallelogram iscm²
- 25) If the two dimensions of a parallelogram are 7 cm and 4 cm and its smaller height is 6 cm, then its area is cm²
- 26) A triangle is of base length 5 cm and its corresponding height is 2 cm more than it, then the area of the triangle iscm²

- 27) The area of the rhombus whose perimeter is 20 cm and its height is 3.4 cm iscm²
- 28) A rhombus of side Length 10 cm and the ratio between its side length and its height is 5:4 then the area of the rhombus iscm²
- 29) The area of opposite trapezium is cm²



30) The area of opposite triangle is cm²

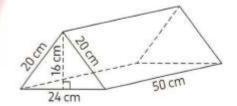




- 32) The surface area of a cuboid that has length of 6 cm, width of 3 cm, height of 9 cm is
- 33) The surface area of a cube of side length 3.5 m is
- 34) The surface area of a cube where the perimeter of one of its faces is 28 cm is
- 35) The surface area of a cuboid that has a square base of side length 5 cm, and a height 8 cm is
- 36) The volume of the cuboid = × height
- 37) The volume of the cuboid = × × height

- 38) The volume of the cuboid whose dimensions are 2.5 cm 5.8 cm and 5.3 cm is

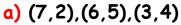
- 42) A gift box in the shape of a cube of side length 30 cm, then its surface area is cm²
- 44) A cuboid of square base of side length 5 cm, and its height is 12 cm, then its volume is
- 45) The surface area of the opposite triangular prism =cm²



Q3 / Answer the following :-

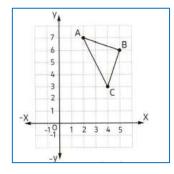
1) In the opposite figure:

Which set of ordered pairs shows the coordinates of the points A, B and C?





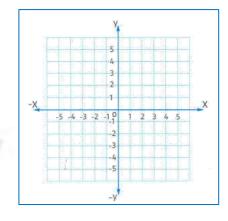
d) (2,7),(6,5),(4,3)



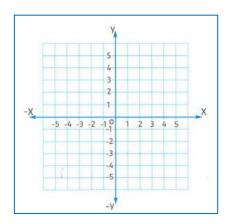
2) On the opposite grid :-

a) Plot the following points A (3,2), B (-3,2), C (-3,-

- 2) and D (3,-2)
- b) Now, connect them.
- c) Identify the shape.

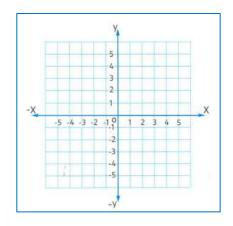


3) Graph the points A (4,4), B (4,1) and C (1,1) join them to draw the triangle ABC and find the images of each point by reflection across the x-axis.

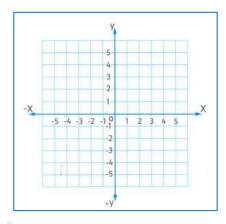


4) Plot the points A(1,-1), B(1,3), C(-3,3) and D(-3,-1)

What is the name of the figure ABCD



5) Graph the points A (-3,3), B (2,3) and D (-3,-1) , then find the point C which makes ABCD is a rectangle



6) Which has the greater surface area: a cube of side length 10 cm or a cuboid of Length 10 cm, width 9 cm and height 5 cm



Part 1

Q1

1) c	2) a	3) c	4) a
5) d	6) a	7) a	8) c
9) a	10) c	11) a	12) a
13) b	14) c	15) b	16) d
17) a	18) b	19) b	20) c
21) d	22) c	23) c	24) b
25) b	26) a	27) a	28) a
29) a	30) a	31) c	32) d
33) b	34) a	35) c	36) c
37) a	38) c	39) c	40) c
41) a	42) b	43) c	44) a
45) b	46) d	47) c	48) d
49) d	50) c	51) c	52) b
53) c	54) b	55) b	56) b
57) c	58) c	59) b	60) d
61) b	62) c	63) a	64) d
65) d	66) d	67) d	68) c
69) d	70) a	71) a	72) b
73) d	74) b	75) b	76) a
77) d	78) c	79) b	80) b
81)	82) a	83) b	84) c
85)	86)	87) d	

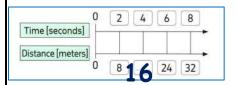
1) $\frac{4}{15}$	2) 6	3) 10	4) 1
5) $1\frac{1}{8}$	6) $\frac{1}{4}$	7) 9.2	8) 0.13
9) 0.0676	10) 8.64	11) 60.5	12) 30
13) 3	14) 18	15) 3.63	16) $\frac{4}{5}$
17) 2	18) $\frac{1}{2}$	19) $\frac{3}{2}$	20) 25
21) 6	22) 8 and 6	23) 5:6	24) 4
25) 3:5	26) 40	27) 24	28) 5
29) 6	30) 16	31) 16	32) 1:3
33) 15	34) 14	35) 8:32	36) 4
37) 4	38) 7	39) 75	40) 8
41) 1:4	42) 1:3	43) 12	44) 4:1
45) $2 \div \frac{2}{4}$	46) 90 km per h.	47) 30,000	48) 1500
49) 150	50) 1	51) 36	52) 20 km per day
53) 0.1	54) 800	55) 2000	56) its second term is 100
57) 43%	58) 8%	59) 17%	60) 40
61) 25	62) 100	63) zero	64) 1
65) 80	66) 20%	67) 100%	68) 5
69) 1.35	70) 32	71) 4	72) 100
73) 13	74) 5	75)30	76) 68
77) 12	78) $\frac{4}{5}$	79)20	80) 500
81) 88	82) 36	83) 40	84) 50%
85) 20	86) 40	87) 450	

Q3

- 1) $\frac{2}{15}$ km.
- 14.7 L.E.
- $\frac{2}{5}$ km.
- 8 bottles 4)
- 6) 3 balls
- **7**) 60.75
- 8) 160 L
- 9) 60 L.E.
- 10) 90 L.E.
- 11) 16 Km.
- **12)** 6 + 20 = 26
- 13) a) 49 b) 91

- 14) a) 12 b) 20 c) 28 20 = 8

15)



3	9	12
7	21	28

4	8
5	10

- 16) a) 25 (X 1) = 20 × 5 $(X-1) = \frac{20 \times 5}{25}$ (X - 1) = 4
 - X = 4 + 1 = 5

$$(X + 3) = \frac{28 \times 4}{7}$$

$$(X + 3) = 16$$

$$X = 16 - 3 = 13$$

c) 14

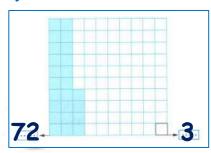
- 17) The longest is 200 cm.
- 18) $\frac{1}{4}$ Km.
- 19) $\frac{265 \, m}{5 \, h} = 73 \, \text{m/h}$, $\frac{480 \, m}{6 \, h} = 80 \, \text{m/h}$ so the second one is better .
- 20) 2.300 × 1000 = 2300 gm.
- 21) 20 000 ÷ 1000 20 L.
- 22) 40%
- 23) 50%
- 24) 20 children
- 25) 1750 pounds
- 26) 2700 pounds
- 27) 24000 L.E.
- 28) 1280 L.E.
- 29) 9.6 m.
- 30) 8 students

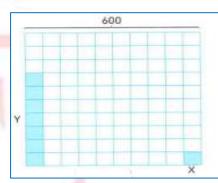
31) a) 25% of 80 = 20



32)
$$X + Y = 6 + 42 = 48$$

b) 24% of a number is 72, no = 300





$$X = 6$$

33) a)
$$\frac{x}{8} = \frac{10}{20}$$

$$x = \frac{8 \times 10}{20} = 4$$

b)
$$\frac{x+1}{10}$$
 = 30%

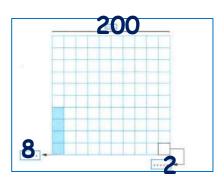
$$\frac{x+1}{10} = \frac{30}{100}$$
X + 1 = $\frac{10 \times 30}{100}$

$$X + 1 = 3$$

$$X = 3 - 1 = 2$$

Math prim 6 2nd term — <u>Feacher</u> | Eman Samir —

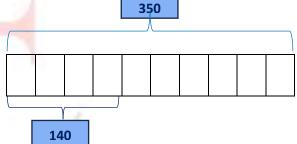
4% of 200 = 8 34)



All =
$$60 \div \frac{40}{100}$$

= $60 \times \frac{100}{40}$ = 150 children

36) If 40% of a number is 140 , find the number by using the opposite tape diagram .



Part 2

Q1

1) c	2) d	3) c	4) b
5) c	6) b	7) b	8) a
9) c	10) a	11) c	12) c
13) d	14) a	15) b	16) b
17) d	18) d	19) d	20) b
21) a	22) b	23) b	24) a
25) b	26) b	27) b	28) c
29) b	30) b	31) c	32) b
33) b	34) b	35) c	36) a
37) b	38) d	39) c	40) d
41) b	42) b	43) a	44) b
45) c	46) c	47) a	48) c
49) a	50) a	51) d	52) d
53) d	54) a	55) c	

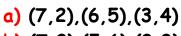
Q2

1) 2	2) 19.5	3) (4,1)	4) 1 + 4 = 5
5) 4	6) triangle	7) 9	8) (-3,5)
9) 2	10) (2,4)	11) first	12) (-3 , 1)
13) y	14) 9	15) 11	16) 5
17) (-1 , 3)	18) 4	19) (3,5)	20) (-2 , 3)
21) (3,7)	22) 2	23) 4	24) 30
25) 42	26) 17.5	27) 20.4	28) 80
29) 32.5	30) 16	31) 16.5	32) 198
33) 73.5	34) 294	35) 210	36) face area
37) L × W	38) 76.85	39) 2 ; 1	40) 2 : 1
41) 400	42) 5400	43) 160	44) 300
45) 2504			

Q3

1) In the opposite figure:

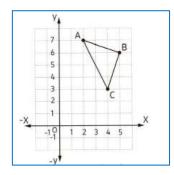
Which set of ordered pairs shows the coordinates of the points A, B and C?



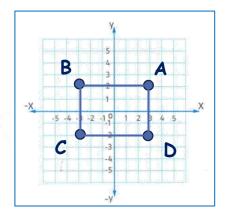
b) (7,2),(5,6),(3,3)

c) (2,7),(5,6),(4,3)

d) (2,7),(6,5),(4,3)

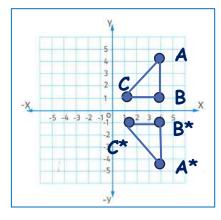


- 2) On the opposite grid :-
- a) Plot the following points A (3,2), B (-3,2), C (-3,-2) and D (3,-2)
- b) Now, connect them.
- c) Identify the shape. rectangle



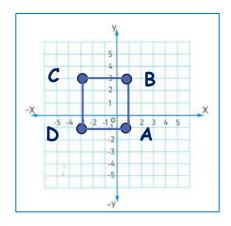
3) Graph the points A (4,4), B (4,1) and C (1,1) join them to draw the triangle ABC and find the images of each point by reflection across the x-axis.

point	image	
A (4,4)	A* (4,-4)	
B (4,1)	B* (4,-1)	
C(1,1)	C* (1,-1)	

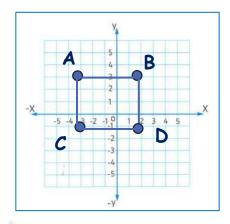


4) Plot the points A(1,-1), B(1,3), C(-3,3) and D(-3,-1)

What is the name of the figure? square



5) Graph the points A(-3,3), B(2,3) and D(-3,-1), then find the point C which makes ABCD is a rectangle D is (2, -1)



6) Which has the greater surface area: a cube of side length 10 cm or a cuboid of Length 10 cm, width 9 cm and height 5 cm

Area of cube =
$$10 \times 10 \times 6 = 600 \text{ cm}^2$$

Area of cuboid =
$$2(10 \times 9 + 10 \times 5 + 9 \times 5)$$

= $2(90 + 50 + 45)$

$$= 2 \times 185 = 370 \text{ cm}^2$$

So , the greater one is area of cube



2nd term 2024

Q1: Choose the correct answer:

4	
	If 25 × 33 = 825, then 0.25 × 3.3 =

- (a) 82.5
- (b) 8.25
- (c) 0.852
- (d) 0.825
- 2 Farida ate 45 % of a pizza, so she ate half the pizza.
 - (a) exactly
- (b) more than
- (c) less than
- (d) otherwise
- 3 The two points (5, -3) and (1, -3) lie on the same
 - (a) horizontal line (b) vertical line
- (c) incline line
- (d) otherwise
- If a triangle has a base length of 20 cm and its corresponding height is 7.5 cm, then its area is cm².
 - (a) 150
- (b) 75

- c) 32.5
- d) 750

- 5 How many $\frac{3}{5}$ s are in 9 apples?
 - a 27

- d 15 $\frac{2}{3}$

- 6 The ratio representing the opposite double line number is
 - (a) 2:3
- (b) 3:5
- (c) 2:5

10

(d) 2:7

- 7 If x : 15 = 3 : 5, then x + 4 =
 - (a) 8

- d) 13
- 8 A parallelogram in which all sides are equal in length is called a
 - (a) square
- (b) rectangle
- (c) rhombus
- (d) trapezium

10 cm

- Mazen studies 21 pages in 6 hours, then the unit rate of his study is pages/hour.
 - (a) 5

(b) 4

- 10 0.55 ÷ 0.011 = ÷ 11
 - (a) 55
- (b) 550
- **(c)** 5,500
- (d) 5.5

- The surface area of the opposite square pyramid is cm².

- (b) 140
- c) 189
- d) 343

- 12 The point lies on the x-axis.
 - (a) (0, 3)
- (b) (-1, -4)
- (c) (-5,0)
- (d) (0,-5)













2nd term 2024

MATH TEACHER

13 The tape diagram representing the division process (3	$\div \frac{1}{2}$) is
---	-------------------------

(a)

b

(c)

(d)

14 If
$$\frac{x+3}{14} = \frac{1}{2}$$
, then x =

(a) 14

(a) 25

(b) 50

c) 100

d) 125

If the original price of a dress is 1,700 LE, then its sale price after apply a discount 20% is

(a) 1360

(b) 340

(c) 170

(d) 17

f the ratio between a and b is 1:3 and the sum of a and b is 20, then b =

18 ÷ 2.15 = 1,200 ÷ 215

(a) 120

(b) 12

(c) 1.2

(d) 1200

19 The distance between A (3, 4) and x-axis is units.

(b) 3

20 If a parallelogram has the dimensions AB = 7 cm and BC = 5 cm, then the length of the corresponding height of AB the length of the corresponding height of BC.

(a) >

d) otherwise

21 The reciprocal of $\frac{1}{8}$ is

(a) -8

(b) 8

 $\frac{1}{8}$

From the opposite equivalent ratios

A + B =

(a) 98

(b) 97

(c) 96

(d) 95

36 B 36

23 A cube of side length is 7 cm, Then its surface area equals cm².

(a) 49

(b) 98

(c) 196

(d) 294













2nd term 2024

MATH TEACHER

24	The second	term in the ratio $\frac{7}{12}$	is
	_	12	

(a) 0

(b) 7

(c) 1

- (d) 12
- 25 If 100% of a number is 80, what is 50% of this number?
 - (a) 0.4
- (b) 4

- (d) 400
- 26 The division operation represented by the following tape diagram
 - (a) $3 \div \frac{1}{2}$
- (b) $3 \div \frac{1}{3}$ (c) $3 \div \frac{1}{4}$
- d 3 ÷ 2/5
- 27 If the area of a parallelogram is 27 cm², and its base is 3 cm, then its corresponding height is cm.

- (d) 18
- **28** The greater the value of the x-coordinate, the point is to the y-axis
 - (a) farther
- (b) closer
- (c) equal
- (d) otherwise
- **29** Which of the following values could be the y-coordinate of the point (5,) that is 7 units from (5,9)
 - (a) -2

(b) 2

- d) -7
- 30 Sandy reads 140 pages of stories weekly, then she reads pages daily
 - (a) 20

(b) 7

- (d) 70

- 31 If 3 : 5 = 12 : 4 x, then x =
 - (a) 20

(b) 24

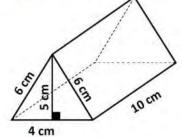
(d) 10

- 32 The next ratio of 2:5,6:15,18:45,.......
 - (a) 54:135
- (b) 54:90
- (c) 36:90
- d) 54:180
- 33 The surface area of the opposite triangular prism is cm².
 - (a) 180

(b) 120

(c) 240

d) 150



- 34 1 day: 24 hours is considered a/an
 - (a) unit ratio
- (b) equivalent ratio (c) conversion factor (d) otherwise











2nd term 2024

MATH TEACH	ER		
	ght of a parallelogram m and 10 cm, then the	나이는 내가 없는 아니라 아이를 하게 되었다.	
a 60	b 42	© 30	d 21
36 Which of the fol	lowing lies in the 2nd o	quadrant?	
a (2, 7)	b (5 , – 3)	(-5 , -9)	d (-1,5)
37 gm = 60	kg		
@ 0.06	b 6,000	© 600	d 60,000
38 The ratio betwe	en the perimete <mark>r of</mark> a	square to its side len	gth is
a 1:4	b 4:1	© 3:1	d 1:3
39 If the ratio betw	een two num <mark>bers is 3</mark>	: 5 and the smaller r	number is 12,
then the greater	number is		
a 15	b 20	© 36	d 12
40 The surface area	of the followin <mark>g cub</mark>	oid is cm².	
a 105	A	b 70	5 ci
© 142		d 35	3 cm
41 The ratio repres	enting the opposite		7 cm
tape diagram is			
a 3:4	b 4:3	© 7:3	d 4:7
42 If 3:x-1=4:8	, then x =		
@ 5 A	H 6 7 E D	© 8	d 9
43 is a uni	t of the volume measi	urement.	7
@ cm	(b) cm ³	© m²	d m
	e of the dimensions of and the new volume i		atio between the
a 1:2	b 1:4	C1:8	d 8:1
	riangle is 35 cm ² and i		m, then the

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a 70





b 35



C 7

d 10



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MATH TEACHER

46	If the image of a point by reflection on the y-axis is (-3,4), then the
	point is

- a (4, -3)
- (b) (3,4)
- (c) (-3,-4)
- (d) (-4,3)

47 The perimeter of one face of a cube is 28 cm, then the surface area of cube is cm².

- (a) 294
- (b) 49
- (c) 4704
- (d) 1176

48 A cuboid of volume 48 cm³, all of its dimensions are doubled, then the new volume of the cuboid is cm3.

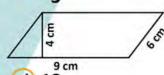
- (b) 192
- d) 129

 $\frac{49}{2}$ ÷ $\frac{1}{2}$ = $\frac{1}{2}$

- a 1/6
- (b) 6

- C 3
- $\frac{2}{3}$

50 The area of the opposite parallelogram = cm²



(a) 24

(b) 54

(c) 36

(d) 18

51 A cubic meter is a unit of

- (a) capacity
- (b) volume
- (c) mass
- (d) length

52 The volume of a cuboid of base area 28 cm² and height 7.4 cm is cm³.

- (a) 270.2
- (b) 207.2
- (c) 202.7
- (d) 207.7

53 If a : b and c : d are equivalent ratios then

- (a) a \times b = c \times d (b) a \times c = b \times d
- (c) a x d = b x c
- (d) a + d = b + c

54 The ratio of the area of one face of a cube to its surface area is

- (a) 1:8
- b)1:4
- c)1:6
- (d) 2:3

55 Any number multiplied by its reciprocal equals

(a) 1

- (c) same number (d) double number

56 The estimated volume of a cuboid with dimensions of 2.5 cm, 3.75 cm, and 2.2 cm is cm3.

(a) 12

(b) 18

c) 24

d) 36

57 5% of LE = 120 LE

- a) 240
- (b) 2400
- 1200
- (d) 120











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MATH TEACHER			
58 The two points (5 , -	-1) and (5 , 6) lie on	the same	•••
	b vertical line		d otherwise
59 Moving the point (3	, 4) 3 units to the ri	ght and 5 units dow	n, then the end point is .
a (0 , 9)	b (6, -1)	© (0,-1)	d (6 , 9)
60 If the base length of then the area is		3 cm and its correspo	onding height is 4 cm,
a 2	b 12	© 32	d 16
61 Which pair shows e	quivalent ratios?		A
$a \frac{3}{4}$, 16 to 20	(b) $\frac{25}{50}$, 1:2	$\frac{4}{8}, \frac{3}{9}$	d 1:3,3:6
<mark>62</mark> 4.5 ÷ 0.09 =	÷ 9		
a 0.45	b 450	© 45	d 4.5
63 The ratio between t	wo numbe <mark>r is 2:5. If</mark>	the first number be	comes 8, then
the second number	will be		
a 8	b 10	© 15	d 20
64 If the three dimensi volume to the origin	3.5		atio between the new
a 1:2	b 1:4	C1:8	d 8:1
65 If the base area of a volume is cn	NOTE THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO I	a <mark>nd its height</mark> is 9 cm	n. Then its
@ 20 A L	b 180	C 1,620	d 810
66 The percentage of 8	squares of 800 squares	ares is %.	
a 4	b 1	© 0.01	d 0.1
67 If 8 : x = 0.5, then x :	=		
a 4	b 8	© 16	d 40
68 The number of heig	hts of a right triangl	e is	
a 0	b 1	© 2	d 3
69 If the perimeter of a , then its height is		le is 18 cm and its ar	rea is 15 cm²
a 5	b 15	© 30	d 6
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AHMED NASSR			
MATH TEACHER			
70 If the area of rhoml	bus is 40 cm ² and its	side length is 8 cm	
, then its height =	cm		
<u>a</u> 320	b 5	© 8	d 10
71 The surface area of	a cuboid whose dim	ension are 6 cm, 4 c	m, and 1 cm = cm ² .
a 24	b 68	© 30	d 10
72 The point (–8 , 3) lie	es in		
a 1st quadrant	b 2 nd quadrant	© 3 rd quadrant	d 4th quadrant
73 Carpenter needs 30) m³ to make 5 tables	s, then the rate of us	ed wood = m³ /table.
a 6	b 3	© 5	d 150
74 To find the simplest	t form of the ratio 8	: 16, we divide the t	wo terms by
a 16	b 8	© 6	d 1
75 The distance betwe	en X (–5 , <mark>–2) and y-</mark>	<mark>axi</mark> s is uni	ts.
a 5	b 2	C -2	d -5
76 The distance between	een -6 and 5 on the r	number line is	
a 1	b -1	© 11	d 5
77 are tw	o equivalent ratios		
	$\frac{2}{3}, \frac{8}{16}$	$\frac{4}{5}, \frac{60}{75}$	$\frac{1}{2},\frac{2}{5}$
78 Which point of the vertices are (0,8):		t <mark>ex of right an</mark> gled-t	riangle If another
(0,1)	b (0, -1)	© (0,0)	d (1,1)
79 3 × = 1	00 37	80 85 7	
(a) 3	(b) 1	(c) <u>8</u>	(d) $2\frac{2}{3}$



a 450

b 4500

C 45

d 0.45

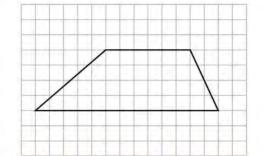
81 The area of the opposite figure is square units.

a 34

b 38

C 52

d 17













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WATH TEACHER			
82 Which of following	expressions repres	ents the surface area o	of a cube with
side length S?			
(a) S ³	b 6 S ²	© 6 S ³	d 4 S ²
83 180 minutes =	hours		
a 2	b 3	C 4	d 5
84 120 m per min =	cm per sec		
a 12000	b 200	© 720	d 1200
85 If the sum of edges	of a cube is 4 <mark>8 cm</mark> ,	then the area of one f	ace is cm².
a 16	b 4	© 64	d 2,304
86 Which ratio of the fo	ollowing does not	equal fourth?	
a 4 16	$\frac{5}{20}$	and the second s	d 10 45
10			45
87 The reciprocal of the	number	is 4 2 5	
@ <u>22</u>	b 4 5	© <u>5</u>	$\frac{2}{11}$
_	A		
88 A cube with surface			
(a) 25	b 900	c 5	(d) 50
89 If the x-coordinate of	of a point is ze <mark>ro, th</mark>	<mark>en th is poi</mark> nt lies	••••
a in 1 st quadrant	b in 3 rd quadra	nt © on x-axis	d on y-axis
90 225% =			
90 225% = a 1 25 100	b $2\frac{25}{200}$	$\bigcirc 2\frac{1}{4}$	d 0.225
91 The surface area of			and 0
cm is cm ² .	a cubola with dime	ensions of 3 cm , 5 cm,	and 8
(a) 2 × 16	(b) 3 × 5 × 8	(6) 2 × (3 × 5 × 8)	d 2 × (15 + 40 + 24)
92 The surface area of the and the height of each	그렇게 되는 것들이 그런 생활하게 되었다면서?	is 6 cm equals	
a 192	b 96	© 24	d 160
93 360 sec = ho	ur		
a 60	b 10	© 3600	d 0.1
94 A box without lid in	form of cube, its si		s surface area is m²
@ 4	b 24	© 20	d 12
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MATH TEACHER

9!	5	lf	4	:	X	=	12	:	18,	then	X	=	

(a) 6

- (c) 15
- (d) 18

- $a \frac{25}{5}$

- $\frac{1}{5}$
- (d) 0
- 7 The area of the rhombus of side length 5 cm and height 8 cm is cm²
- (b) 20

(c)80

(d) 400

$$\frac{7}{3} = \frac{28}{48}$$

- (a) 10
- (b) 12
- (c) 14
- (d) 16

- 99 The area of the triangle =
 - $\frac{1}{2}$ bb
- $\frac{b}{2} \times h$ $\frac{1}{2} hh$
- $(d) b \times h$

- 100 If 3 : 5 = 12 : 2x, then x =
 - (a) 20
- (b) 24

- (c) 12
- (d) 10
- 101 If the point (x , 6) lies in the 1st quadrant, then the value of x is
- (b)-1
- (c) -2
- (d) 5

- 1<mark>02</mark> 49 % =
 - $a \frac{4.9}{100}$
- (b) 49

- (c) 0.49
- (d) 4900
- 103 30 L.E for 5 kg, then the cost of 30 kg is L.E

- (b) 30_
- (d) 180
- 104 The total number of students in a class is 40 and the boys are 15, then the ratio between girls and boys is
 - (a) 3:8
- (b) 3:5
- (c) 5:8
- (d) 5:3
- 105 A cube with a surface area of 216 cm², Then the edge length is cm.

- (b) 36
- (c) 96

- - (a) 30
- (b) 25
- (c) 50
- (d) 60

- 1071-1% = %
 - (a) zero
- (b) 2

- (c) 99
- (d) 1













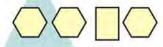
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108 The smaller the value of the y-coordinate,	MATH TEACHE	R		
109 What is the distance between the point A (-2 , 5) and its reflection image in the x-axis?	108 The smaller the va	alue of the y-coordi	nate, the p	oint is to the x-axis
② 10 units ⓑ 4 units ⓒ 5 units ⓓ 2 units 1	a farther	(b) closer	© equal	d otherwise
1 1 A worker paints a wall with an area of 36 m² in 4 hours, then the rate of painting is	109 What is the distar	nce between the po	int A (-2 , 5) and its r	eflection image in the x-axis?
then the rate of painting is	a 10 units	b 4 units	© 5 units	d 2 units
ⓐ 7	그리는 그리는 사람들이 되었다고 있다면 그리는 어떻게 된다.			
1 1 What is the distance between the c points(4, -7) and (-5, -7)? ② 1 unit ⑤ 3 units ⓒ 7 units ⓓ 9 units 1 2 The number of heights of any triangle is				d 10
a 1 unit b 3 units c 7 units d 9 units 112 The number of heights of any triangle is			<u> </u>	
1 12 The number of heights of any triangle is				
ⓐ 3 ⓑ 2 ⓒ 1 ⓓ 0 1 13 If 127.92 ÷ 4.1 = 31.2, then 12.792 ÷ 4.1 = ⓒ 31.2 ⓓ 0.312 1 4.8 L ×				d) 5 dilits
1 13 If 127.92 ÷ 4.1 = 31.2, then 12.792 ÷ 4.1 =			_	
ⓐ 312 ⓑ 3.12 ⓒ 31.2 ⓓ 0.312 1 4.8 L ×				(a) U
1 4.8 L ×	_			
a 100 mL 1 L b 1,000 L 1 mL c 1,000 mL 1 L 1,000 mL d 1L 1,000 mL 115 A a water tap is leaking 240 litres of water in one hour, then the rate of leaking =	_		(c) 31.2	(d) 0.312
1			A Control of	1 20
15 A a water tap is leaking 240 litres of water in one hour, then the rate of leaking =	a 100 mL	6 1,000 L	© 1,000 mL	d 1L
of leaking =		aking 240 litres of y	vater in one hour the	
a 240 b 4 c 40 d 6 1 6 20% of a number =		CONTRACTOR OF THE PARTY OF THE	water in one nour, the	en the rate
a 10 b 20 c 30 d 40 117 The image of the point (0, 7) by reflection on the y-axis is			© 40	(d) 6
a 10 b 20 c 30 d 40 117 The image of the point (0, 7) by reflection on the y-axis is	116 20% of a number	= % o	f half the same numb	<u> </u>
117 The image of the point (0 , 7) by reflection on the y-axis is				
(a) (0, -7) (b) (0, 0) (c) (7, 0) (d) itself 118 A parallelogram with area 48 cm² and base length 6 cm ,then it's corresponding height is		head Carollin Steel 1 12		
118 A parallelogram with area 48 cm² and base length 6 cm ,then it's corresponding height is				
height is				
119 5.2 × 0.3 =				
(a) 0.156 (b) 1.56 (c) 15.6 (d) 156 $120 \dots \times \frac{3}{5} = \frac{3}{4}$	a 9	(b) 8	© 7	(d) 8.5
(a) 0.156 (b) 1.56 (c) 15.6 (d) 156 $120 \dots \times \frac{3}{5} = \frac{3}{4}$	119 5.2 × 0.3 =			
$120 \dots \times \frac{3}{5} = \frac{3}{4}$ $0 \frac{4}{5} = \frac{3}{4}$ $0 \frac{1}{5} = \frac{3}{4}$ $0 \frac{2}{5} = \frac{3}{4}$			© 15.6	d 156
$\frac{5}{0} \frac{4}{0} \frac{1}{0} \frac{1}{0} \frac{1}{0} \frac{9}{0} \frac{1}{0} \frac{2}{0}$	120× 3 = 3			
(a) — (b) 1 — (c) — (d) 2 —	5 4	O 1	O 9	O - 2
15 20 9	(a) 4/15	$b_{1}\frac{1}{4}$	$\bigcirc \frac{9}{20}$	d $2\frac{2}{9}$

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Q2: Complete the following:

- $\frac{5}{7} = \frac{7}{8} \times \dots$
- 2 it is a comparison between two quantities that have different units
- 3 The image of the point (0, -1) by reflection on the y-axis is
- 4 If 10% of a number is 36, then the number is
- 5 The volume of a cube with side length of 4 cm = cm³.
- 6 In the opposite figure, the ratio between the number of hexagon to the number of rectangles is::



- 7 1.5 × = 150
- 8 If $\frac{x}{9} = \frac{4}{x}$, then value of $x = \frac{1}{x}$
- 9 x = 5, then x =
- 10 The surface area of a cuboid =
- 11 The point C (a , 5) lies on the y-axis, then a =
- 12 If the surface area of a cube is 12 cm². Then the area of one face equals cm².
- 13 A factory produces 1,800 cans of soda every 6 hours, then in 15 hours it will produce cans of soda.
- **14** Area of rectangle =
- 15 The x-coordinate of any point that lies on the y-axis is
- 16 280 gram/sec =kg/min
- 17 The area of the opposite figure is square units.
- $\frac{3}{5} \times \frac{4}{3}$
- 6 cm 13 cm

8 cm

- 20 The point (-9, -2) lies on the quadrant.
- 21 The number which has no reciprocal is





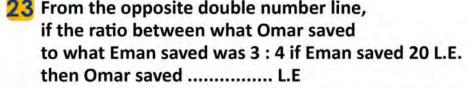


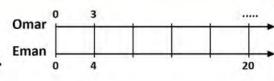




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$$\frac{6}{7} \div 3 = \dots$$

- 25 If the point (6, 2) moved 2 units in the negative direction of x-axis, it becomes
- 26 240 : 360 = : (in the simplest form)
- 27 A cube with a 3 cm edge has a surface area of cm².
- 28 Belal scored 570 marks out of 600. Then the percentage of marks scored is
- 29 45 m/min = km/hr
- 30 12 cm, 10 cm, and 4 cm are dimensions of a cuboid, then its volume = cm³
- 31 Gehan bought 2 kg of apples for 120 L.E, then she paid L.E to buy 4.5 kg
- 32 The image of the point (4, 3) by reflection on is (4, -3).
- 33 4:7 =: 42
- 34 There are 60 students in a class. If the percentage of girls is 40%, then the number of boys is
- 35 A cuboid with a base area of 15 cm², and a height of 5 cm, then its volume = cm³.
- 36 The image of point (7, -2) by reflection onis (-7, -2).
- 37 If 3:7 = x:28, then x 2 =
- 38 The surface area of a cuboid of dimensions 5 cm, 6 cm, and 3 cm is cm².
- 39 A ship covered 360 km in 4 hours, then the speed of the ship is km/hr.
- 40 Point C (0, 3) lies on-axis.
- 41 Area of rhombus =
- 42 In the ratio 9:5, the first term is and the second term is
- 43 If there are 81 litres of water in 18 bottles, then there litres in 6 bottles
- 44 6 ÷ 0.2 = ÷ =











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MATH TEACHER

- 45 If there are 50 students in class and 96% of them passed, then the students who failed the test are students.
- 46 The coordinate plane is separated into quadrants.
- 47 24 cm per second = meter/minute
- 48 The ratio between side length of a square to its perimeter is :
- 49 The y-coordinate of any point that lies on the x-axis is
- **50** Area of parallelogram =
- 51 The sum of edges of a cube is 60 cm, then its surface area is cm².
- 52 The distance between A (-2, 4) and y-axis is units.
- 53 A cube of side length 9 cm, then the area of one face is cm².
- 54 A point is located 3 units to the right of the origin point and 2 units up, then the point is (.....)
- 55 Start at the point (4, 1) and move 2 units left and 4 units up, then the end point is
- 56 x + 4 : 12 = 5 : 15, then the value of x =
- 57 The ratio between the perimeter of equilateral triangle and its side length is: :
- 58 ÷ 0.8 = 2.3
- 59 In the parallelogram, the longer height corresponds to sides.
- 60 The area of opposite triangle = cm2.
- **61** 71,500 cm = km
- 62 23 = %
- 63 If 10.35 ÷ 2.3 = 4.5, then 23 x 4.5 =
- 64 The trapezium has exactly pair(s) of parallel sides.
- 65 The reciprocal of 9 is
- 66 If the area of a parallelogram is 54 cm2 and the length of one of its sides is 9 cm, then the length of the corresponding height iscm.
- 67 If the smaller height of a parallelogram is 5 cm and the length of the two bases is 7 cm and 9 cm, then the the area is cm².

$$\frac{68}{5} = \frac{2}{7}$$

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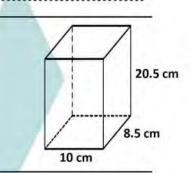


4 cm

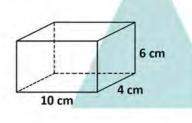
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Q3: Answer the following:

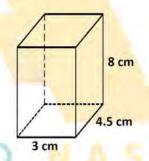
- 1 The number of students in a school is 540, if the number of boys in this school is 300, Find: The ratio between the number of boys and the number of girls.
- 2 A pyramid of metal. The square base has a side length of about 100 cm. The height of each triangular face is about 80 cm. What is the surface area of the pyramid?



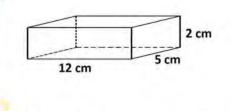
Find the volume of each of the following solids



The volume =cm³.



The volume = cm³.



The volume = cm³.

5 A piece of cloth, 20 meters long, was put in water, it shrank by 4%.
What is the length after shrinking?

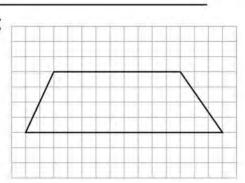
Find the area of each of the following trapeziums using decomposition:

Area of triangle (1) =cm².

Area of triangle (2) =cm².

Area of rectangle =cm².

Area of trapezium =cm².













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Find perd	entage of students who	failed			
	produces a box of meta he surface area of that b				
Farida wa	ents to divide a piece of ength $\frac{3}{8}$ meter. How ma	fabric of length	3 meter int here?	o smaller	pieces
a] The m	has 980 LE. He spends 43 oney that he spends : th oney that he saves : the	e total money :	=		
	a shape of cube, its edg ea of one face.				
Find the		he following tr	iangular prisn	n: d (2)	







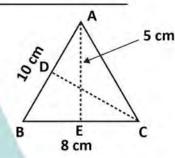


2nd term 2024

13 Complete the following ratio tables:

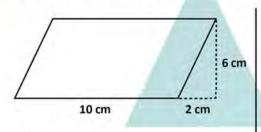
3		15		96
	3	5	9	

14 According to the opposite triangle, find the length of CD.

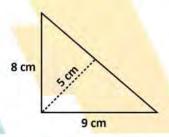


15 If the price of jeans is 720 L.E, if there's 35% percent off, Calculate the price of two jeans.

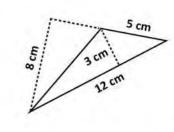
16 Find the area of each figure:



The area = cm^2 .



The area = cm².



The area = cm².

- 17 Gehan made a square-based pyramid from wood. If the side of the square is 6 cm, and the height of the triangular faces is 9 cm, Calculate the surface area of the box
- 18 Find the value of y in each of the following.

$$a] \frac{4}{5} \div y = \frac{1}{4}$$

b]
$$\frac{4}{5}$$
 x y = 1

19 If 100 grams of chocolate give 300 calories, if we had only 40 grams of chocolate, so how many calories would we get?





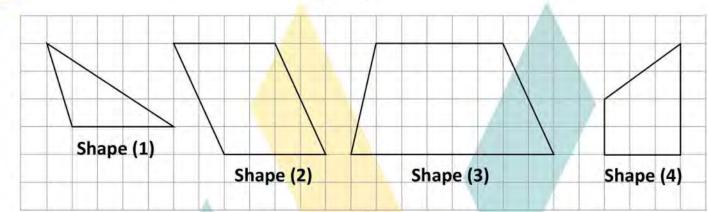






2nd term 2024

- 20 An athlete runs at a constant speed of 8 m/sec, Calculate his average speed in kilometers per hour.....
- 21 ABCD is a parallelogram. If AB = 8 cm and BC = 5 cm and the corresponding height to AB is 4 cm, find the height corresponding to BC.
- 22 Find the area of each of the following shapes:



The area of shape (1) =cm². The area of shape (2) = cm². The area of shape (3) = cm². The area of shape (4) = cm².

23 If a slice of one pizza costs 12.25 pounds, how much do 13 pieces of the same type cost?

24 A car consumed 640 liters of gasoline in 4 months. How many liters did the car consume on average in one month?

25 Which is better to buy: 8 cans of green beans of 36 LE or 13 cans of green beans of 55.25 LE?.

يمكنك الحصول على مراجعات امتحانات و شرح من خلال مسح الكود







where all cans are same kind



2nd term 2024

- 26 If the original price of a meal is 460 LE, if there's a tax of 15%, Calculate the price of the meal after adding tax.....
- 27 Determine which quadrant you can plot the ordered pair in:

A] $(2,5) \longrightarrow \dots$ B] $(-1,2) \longrightarrow \dots$ C] $(1,-5) \longrightarrow \dots$

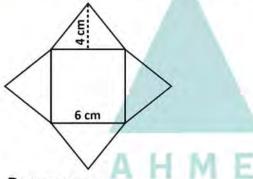
 $\mathsf{D}]\,(\,4\,,-3\,) \longrightarrow \dots \qquad \qquad \mathsf{E}]\,(\,-7\,,-1\,) \longrightarrow \dots \dots \qquad \qquad \mathsf{F}]\,(\,5\,,5\,) \longrightarrow \dots \dots \dots \dots$

- 28 Soha divided 127.5 LE among her three sons. Find the share of each one.
- 29 Sandy uploads videos into YouTube, if the video takes 15 minutes:

A] How many videos will be uploaded in 375 minutes?

B] How long will Sandy take to upload 4 videos to YouTube?

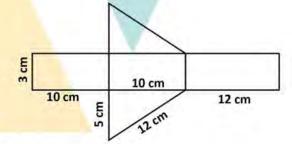
Find the surface area of the following solids:



Base area = ...

Area of the face =

Total surface area =



Area of bottom =

Area of top =

Area of back =

Area of right side =

Area of left side = Surface area =

31 In a survey of 80 people, if the percentage of people who chose Al-Ahly Club as their favorite club is 80%.

Find the number of people who don't choose Al-Ahly Club.

32 If the volume of a cuboid is 720 cm³ and its height is 10 cm, find its base area.









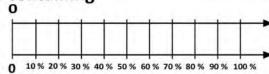


2nd term 2024

MATH TEACHER

33 If there are 40% of math books in a school library containing 1,800 books in total,

Find the number of math books in the library.

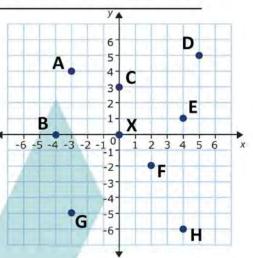


34 Using the following coordinate plane: Write the ordered pair that represents each of the following point.

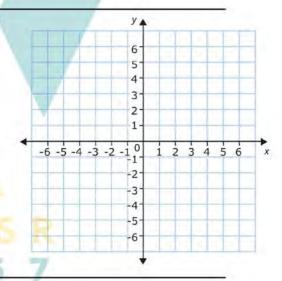
A(.....) B(.....) C(.....)

D(.....) E(.....) F(.....)

G(.....) H(.....) X(.....)



35 Using graph paper: Plot the point (0, -2) as a vertex of square 4 unit length. Determine another 3 points to complete the square.



36 Answer the following:

a]
$$\frac{1}{2} \div 2 = \dots$$

c]
$$6 \times \frac{1}{6} = \dots$$

b]
$$3\frac{3}{5} \times \frac{5}{6} = \dots$$

d]
$$12 \div \frac{4}{9} = \dots$$

37 Find the area of the rhombus whose perimeter is 32 cm and its height is 5.5 cm.









G6-2024

Choose the correct answer:

The ratio 200 to 350 =	(in simplest form)

- A. 20
- B. 4:7
- C. 7 to 4
- **D.** 5:7
- The volume of a cuboid of base area 28 cm 2 and height 7.4 cm is cm 3
- A. 270.2
- **B.** 207.2
- C. 202.7
- D. 207.7
- The point M is located 3 units to the right and 5 units up from the origin point, then the ordered pair that represents the point M is ______
 - A. (8,0)
- **B.** (3,5)
- C. (5,3)
- D. (0,8)

- $3.6 \div 0.12 = -$
 - **A.** 30
- **B**. 3

- **C.** 0.3
- **D.** 0.03
- If the percent of boys in a school is 52 % , then the percent of girls is ______ %
- 5 A. 52

6

7

B. 48

C. 0.48

1 whole

D. 0.52

From the opposite model

$$,3 \div \frac{1}{4} =$$

L	4	4	\perp
		_	1

D. 12

1 whole

- 3.5 cm 25 mm
 - A. >
- B. <

C. =

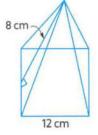
- The tape diagram
 - ne tape diagram
- represents the ratio ____

- **A.** 3:6
- B. 1:2
- **C**. 7:3
- D. $\frac{6}{4}$

The surface area of the opposite square-based pyramid

- is _____cm²
- **A.** 360
- **C**. 528

- **B.** 336
- C. 240



1 whole

If the ratio between number of oranges and number of bananas is 3:4 and the number of bananas is 20, then the difference between them is ______

- **A**. 1
- **B.** 5

C. 15

D. 20

G6-2024

		1.0
	1 1	1
	1 _•_ 1	
4.4	7.7.5	_
11	A 3	3

Which of the following is a unit rate?

A. 40 L.E. per 2 kg 12

B. 450 km per 3 hours

C. 2 liters per bottle

D. 4 spoons of sugar per 2 cups

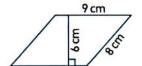
— cm² The area of the opposite parallelogram =

A. 54 13

B. 48

C. 72

D. 34



24 % of 36 36 % of 24 14

- A. <
- B. =

C. >

2.5 % of 700 L.E. = ------ L.E.

- 15 A. $\frac{2}{5}$
- B. 70

- C. 175
- D. 17.5

The height of a rhombus whose area is 100 cm² and side length 12.5 cm is — 16

- **B.** 8

C. 9

D. 10

- 17 A. $\frac{1}{2}$ bb
- B. $\frac{b}{2} \times h$
- **C.** $\frac{1}{2}$ hh
- $D. b \times h$

18 **A.** (5,0)

- B. (-5,0)
- C. (0, -2)
- D. (-2,-2)

Which of the following is a conversion factor?

The point which is plotted on y-axis is

- 19 A. $\frac{4 \text{ km}}{1 \text{ hour}}$
- B. <u>60 min</u>
- c. $\frac{1 \text{ week}}{7 \text{ days}}$
- **D.** $\frac{1,000 \text{ cm}}{1 \text{ km}}$

If $111 \times 23 = 2553$, then $1.11 \times 2.3 = -$

- 20 A. 255.3
- **B.** 25.53
- **C.** 2.553
- **D.** 0.2553

$0.453 \times 0.1 = -$ 21

- **A.** 0.0543
- **B.** 4.53
- **C.** 0.0453
- **D.** 0.453

Which ratio is equivalent to 75:100?

- 22 A. $\frac{7.5}{1}$
- **B.** 100:75
- **C.** 140:200
- D. 3 to 4

The point
$$(3,-1)$$
 by reflection across the y-axis is the point — A. $(-3,1)$ B. $(-3,-1)$ C. $(3,1)$

- B. (-3,-1)
- C. (3,1)
- **D.** (1, -3)

G6 - 2024

	54 L.E. for 9 kg, then the cost of 6 kg is
2/	

- A. 36
 - B. 9 C. 27
- D. 45

If the ratio between two numbers is 2:5 and the smaller number is 20, then the greater number is -

- 25
 - A. 8
- **B.** 30
- **C**. 70
- **D.** 50

From the opposite equivalent ratios 26

- A + B = -
- A. 98

C. 1:3

B. 97

- C. 96
- D. 95
- 36

36

В

The opposite tape diagram represents the ratio —

27 A. 3:4

- B. 4:3
- D. 3:5

- A car consumes $\frac{1}{10}$ liter of petrol to cover 1 km, then it covers _____ km per liter. 28
 - A. 1

C. 10

- **D.** 20
- A parallelogram with area 48 cm² and base length 6 cm, then it's corresponding height is _____ cm 29
- A. 9

30

31

32

B. 8

C. 7

D. 8.5

ı	From the opposite table
ı	the value of the unknown =

A. 270

B. 27

C. 2,700

D. 2.7

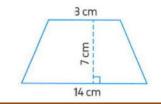
Whole	Part	Percent	
Unkown	54	20 %	

- The area of the opposite trapezium = --cm²
 - A. 56

B. 77

C. 98

D. 38.5



- There are 24 cookies in 8 boxes, then the number of cookies in 3 boxes using double number line is -
- **A.** 3

B. 9

C. 12

- **D.** 18
- Number of boxes Number of cookies 24
- ABCD is a parallelogram of area 200 cm^2 , AB = 20 cm and BC = 40 cm, then the **33** smaller height is _____ cm.
 - A. 10
- **B.** 5

- **C.** 160
- **D.** 180

G6-2024

7.4	The point (-	2 , _ 3) lies in the	quadrant.	
34	A. first	B. second	C. third	

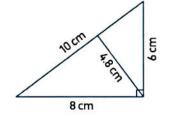
- B. second C. third
- D. fourth

- If $48.36 \div 7.8 = 6.2$, then $4.836 \div 0.78 = -$ 35
 - **A.** 0.62
- B. 6.2
- C. 62
- **D.** 620

Which expression represents the area of the drawn triangle?

- 36
 - A. $\frac{1}{2} \times 6 \times 10$
 - C. $\frac{1}{2} \times 6 \times 8$

- B. $\frac{1}{2} \times 4.8 \times 8$
- D. $\frac{1}{2} \times 8 \times 10$



- The volume of a cuboid of dimensions 12 cm, 9.5 cm and $4\frac{1}{4}$ cm is _____ **37**
 - **A.** 484.5
- **B.** 540
- C. 432
- **D.** 480

- $1\frac{3}{5} = -$ - % 38
 - A. 1.6
- B. 60
- C. 160
- D. 16

- 55 % 39
 - A. <
- B. =

- C. >
- If the x-coordinate of a point is zero, then the point lies ___ 40
 - A. in 1st quadrant B. in 2nd quadrant C. on x-axis
- **D.** on y-axis

- The point _____ lies in the 1st quadrant.
- 41 A. (2,3)
- B. (-1,2)
- C. (4, -3)
- D. (-6,-2)

- The surface area of the cube = -42
 - A. S²
- B. S×S×S
- \mathbf{C} . $6 \times 5 \times 5$
- D. S+S+S
- If the ratio between two numbers is 2:3 and the first number is 6, then the second
- number is _____ 43
 - A. 4
- B. 6

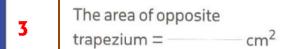
C. 9

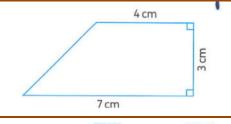
- **D.** 12
- The image of the point (-2, -5) by reflection across the x-axis is the point 44
- A. (-2,5)
- B. (2,5)
- C. (2, -5)
- D. (-2, -5)
- The surface area of the rectangular prism is 45
- A.l+w+h
- B. l×w×h
- C. 2l+2w+2h D. $2 \times (lw+lh+wh)$
- 25% of a number = 120, then this number = _ 46
- **A.** 30
- B. 2.5
- C. 480
- **D.** 360

600

Complete:

- $3.4 \times 0.2 =$
- The point (4,7) by reflection across the x-axis is the point -



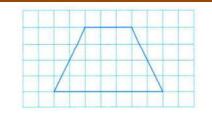


X

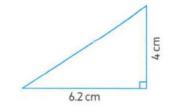
From the opposite double



- 5% of 600 kg = ----kg5
- 6 20% + 50% = -
- 7 If 3:7 is equivalent to 21:x, then x = -
- 8
- The area of the opposite trapezium = — square units.



- Area of parallelogram = -----× 10
- 11
- The point (a,5) lies on the y-axis, then a = 12
- The area of the opposite triangle = cm² 13



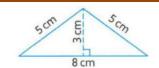
- 2 to 5 = ----- % 14
- The reciprocal of $\frac{4}{9}$ is _____ 15

	1 22 (12.2)	
16	0.5 × 0.2 =	

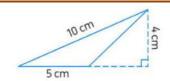
- 17 4.84 ÷ 0.8 =
- 18 _____ % of 600 L.E. = 120 L.E.
- From the opposite model, $\frac{1}{2} \div 3 =$

1/2			1/2		
1	1	1	1	1	1
6	6	6	6	6	6

- A point is located 3 units to the right of the origin point and 2 units up, then the point is (______)
- 21 If the side length of a rhombus is 10 cm and it's height 3.4 cm, then it's area = ----- cm²
- Start at the point (5,3) and move 2 units left and 4 units up, then the end point is _____
- The area of the opposite triangle = --- cm²



- The point (4,2) is _____ units from the y-axis
- The area of the opposite triangle = --- cm²



trapezio

The area of the opposite trapezium = ——— square units.



- The point (-3,-4) lies in the _____ quadrant
- 29 $50\% + \frac{1}{2} = -$
- The point (2,0) lies on the ———— -axis



Essay Problems:

120 km per hour = meter per min.

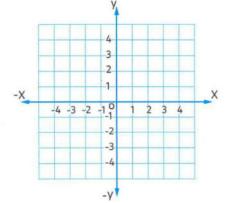
1

Plot the points A (1, -1)

- ,B(1,3)
- **2** ,C (-3,3)

and D (-3,-1)

What is the name of the figure ABCD?

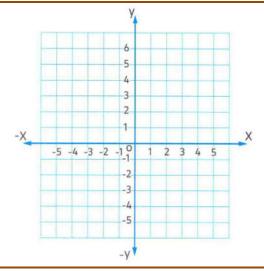


3

Plot the points A (3,4), B (1,1), C (0,4)

then the sum of all pens is-

Join them and find the image of each one by reflection across the y-axis



4

A man bought a T.V. set. He was given a 15 % discount of its marked price which was 8,500 L.E. Find its price after discount.

5

If the price of 15 pencils of the same kind is 112.5 L.E. Find the price of each pencil.

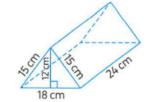
If the ratio between the number of red pens to the number of blue pens is 2:5 and the number of blue pens is more than the number of red pens by 6 pens,



Two machines produc	ce cloth, the first one produces 365 meters in 5 hours and the
second produces 480	meters in 6 hours.

Which machine is better?

Calculate the surface area of the opposite triangular prism.

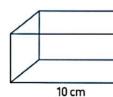


Find the value of x:

1.
$$\frac{x}{8} = \frac{10}{20}$$

2.
$$\frac{x+1}{10}$$
 = 30 %

Find the surface area of the opposite cuboid.



t cm

10

11

Each stone block in the Great Pyramid has a mass of about 2,300 kg.

How much is the mass of one block in grams?

12

The two base lengths of a parallelogram are 8 cm , 6 cm and the the smaller height is 3 cm

Calculate the greater height of the parallelogram.

A runner covers 24 kilometres in 6 hours.

13

Find the distance he covers in 4 hours at the same speed.





Complete

$$\frac{8}{3} \div \frac{4}{3} = \dots$$

$$\frac{2}{5} = \frac{5}{8}$$

$$\frac{3}{8} \times \dots = \frac{9}{16}$$

$$4 \times \frac{7}{9} = 1$$

$$\div 2\frac{1}{4} = 1$$

$$69 \div \frac{3}{4} = 9 \times \dots$$

The reciprocal of
$$2\frac{1}{5}$$
 is

How many
$$\frac{1}{6}$$
's are in $\frac{2}{3}$?.....

$$14$$
 The simplest form of the ratio 12 to 20 is 1

If
$$\frac{3}{5}$$
 equivalent to x: 15, then x -3 =

Mariam uses
$$\frac{7}{8}$$
 cup of milk to make 2 mugs of coffee , so she uses cup of milk to make one mug of coffee.











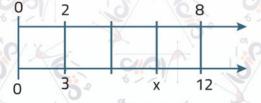




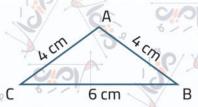


- 21 The ratio between two numbers is 2 : 3

 If the greater number is 21 , then the smaller number is
- If the ratio between two numbers is 3 : 5 and the difference between them is 12 , then the first number is
- From the opposite double number line,



- 24 If $\frac{X}{Y} = \frac{A}{B}$, then $X \times \dots = A \times \dots$



- 26 The ratio between two side lengths of square is _____
- 27 The ratio between side length of square and its perimeter is _____
- the ratio between boys and girls,
 then value of A =, C B =

-			
1	Boys	Girls	Total
9	3,⊲	, 5	A
	В	CO	24 9

- 29 150 L.E. in 5 days , thenL.E. per day
- 30 Sara bought 2 kg of Apples for 36 L.E. , then she paid L.E. to buy 3 kg.
- 31 1500 mL =L
- 32 cm = 20 m
- $\frac{3}{4} \text{ day} = \dots \text{hr}$
- 34 2.25 hr × _____ min = ____ min
- 35 36 kg per day = kg per hour
- 36 24 km per hour = m per min.
- 37 The percentage is a ratio
- 38 0.05 = (as a percent)
- 39 9 = (as a percent)













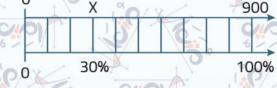






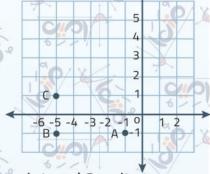
$$\frac{1}{2}\% = \dots$$
 (as a decimal)

- 41 $11\frac{1}{9}\% = \dots$ (in the simplest form)
- 42 <u>5</u> × <u>8</u> = %
- $43 \quad 1 \frac{1}{4} = \dots$ %
- 44 18% + 72% += 1
- $45 \quad 0.25 + \frac{3}{40} + 5\% = \dots \%$
- 46 1 (2.5 % + 0.5) =
- 47 6<u>1</u> % of 800 kg = kg
- 48 2.5 % of one kilogram = grams.
- 49 15 % of ____ = 75
- 50 % of 240 = 60
- 51 25 % of 1000 = 50 % of
- From the opposite double number line



- Mazen has 200 L.E., he spent 55 % of his money to buy a book, then the price of this book is

- 57 The point (-1, -2) lies inquadrant.
- The point which is ptotted 5 units to the left of the origin point and 2 units up
- 159 If the point X (-1, 4) moved 3 units to the left, then 2 units downward, then A will be







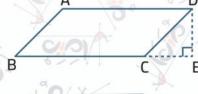








- The image of the point (1, -5) by reflection in the x-axis lies in the quadrant
- 61 The distance between the points (4 , -7) and (-5 , 7) is units
- The distance between the point (2 , 3) and its image by reflection across y-axis =units
- In the opposite parallelogram ABCD the corresponding height to the base AD is



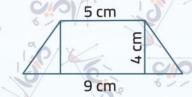
The area of the opposite parallelogram =



- If the two dimensions of a parallelogram are 7 cm and 4 cm and its smaller height is 6 cm, then its area is
- 66 Area of a rhombus whose side length is 2.4 cm and its height is 2 cm is
- The area of the opposite triangle = cm²



- The area of the triangle whose base length is 4.8 cm and its corresponding height is 1.5 cm is
- 69 Area of the opposite trapezium =cm²



- 70 The area of the opposite trapezium
- The surface area of a cuboid that has a length of 6 cm, a width of 3 cm and a height of 9 cm is ______
- A gift box in the shape of a cube of side length 6 cm, then its surface area
- 73 The perimeter of one face of a cube is 28 cm, then the surface area of the cube is
- 74 The surface area of the opposite square pyramid =













Ağtaal Möi

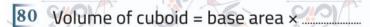




13 cm

- 76 The surface area of the opposite triangular prism =
- 77 If the perimeter of one face of a cube is 28 cm, then the surface area of the cube =
- 78 The surface area of the opposite triangular prism =









- If one dimension of a cuboid is doubled, then the ratio of the original volume to the new volume is
- If two dimension of a cuboid are doubled, then the ratio of the original volume to the new volume is
- If two dimension of a cuboid are tripled, then the ratio of the original volume to
- If one dimension of a cuboid is divided in half, then the ratio of the original volume to the new volume is
- A cuboid with dimensions 14 cm ,10 cm and 8 cm then the volume of the cuboid =cm³

If the three dimensions of the cuboid are doubled, then the new volume of the cuboid =cm³

A cuboid of volume 200 cm³, if its length is divided in half, then the new volume of the cuboid iscm³











Motaal Mot